ENGINEERING EDUCATION

Bulletin of the

Society for the Promotion of Engineering Education

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P. F. Walker, Chas. F. Scott, F. L. Bishop, *Editor*.

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COUNCIL.

OFFICERS 1923–24.

President.

P. F. WALKER, University of Kansas, Lawrence, Kans.

Vice-Presidents.

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Secretary.

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W. O. WILEY, Jno. Wiley & Sons, New York City.

COUNCIL.

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Whose Terms Expire in 1924.

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J. H. DUNLAP, New York City.
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Whose Terms Expire in 1925.

M. W. ALEXANDER, New York City.
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H. S. EVANS, University of Colorado.
E. A. HITCHCOCK, The Ohio State University.
H. J. HUGHES, Harvard University.
C. E. MAGNUSSON, University of Washington.
G. C. SHAAD, University of Kansas.

Whose Terms Expire in 1926.

D. S. ANDERSON, Tulane University.
F. E. SEAVEY, Tufts College.
E. J. BABCOCK, University of North Dakota.
HUGH MILLER, George Washington University.
H. C. BERRY, University of Pennsylvania.
F. A. FISH, Iowa State College.
W. N. BARNARD, Cornell University.

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Mansfield Merriman, New York, N. Y.
T. C. Mendenhall, Ravenna, O.
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C. Frank Allen, Boston, Mass.
F. W. McNair, Houghton, Mich.
D. C. Jackson, Cambridge, Mass.
Chas. S. Howe, Cleveland, O.
F. E. Turneaure, Madison, Wis.
H. S. Munroe, Litchfield, Conn.
A. N. Talbot, Urbana, Ill.
W. G. Raymond, Iowa City, Ia.
W. T. Magruder, Columbus, O.
G. C. Anthony, Tufts College, Mass.
Anson Marston, Ames, Ia.
Henry S. Jacoby, Ithaca, N. Y.
G. R. Chatburn, Lincoln, Neb.
Milo S. Ketchum, Urbana, Ill.
John F. Hayford, Evanston, Ill.
Arthur M. Greene, Jr., Princeton, N. J.
Mortimer E. Cooley, Ann Arbor, Mich.
Chas. F. Scott, New Haven, Conn.

BOARD OF INVESTIGATION AND COÖRDINATION.

Aydelotte, Frank, President, Swarthmore College.
Cooley, M. E., Professor of Mechanical Engineering and Dean of the Colleges of Engineering and Architecture, University of Michigan.
Dunlap, J. H., Secretary, American Society of Civil Engineers.
Jackson, D. C., Professor of Electrical Engineering, Massachusetts Institute of Technology.
McNair, F. W., President, Michigan College of Mines.
Seashore, Carl E., Dean, Graduate School, The Iowa State University.
Walker, P. F., Dean, School of Engineering, University of Kansas.
Scott, C. F., *Chairman*, Professor of Electrical Engineering, Sheffield Scientific School, Yale University.
Wickenden, W. E., Director of Investigations, Room 1607, 33 West 39th Street, New York, N. Y.

The Secretary of the Society (Dean F. L. Bishop, University of Pittsburgh) is *ex-officio* Secretary of the Board but not a member.

Origin and Functions of the Board.

The Society, at its thirtieth annual meeting held at Urbana in 1922, appointed a Development Committee to formulate an answer to the question, "What can the Society do in a comprehensive way to develop, broaden and enrich engineering education?" This action grew out of a recognition of the great progress being made by the engineering profession, and of the need of concerted effort to keep engineering education abreast of this advance. In its work of stimulating and coördinating these efforts the Society was handicapped by limited financial resources

and by its dependence on the voluntary activities of a widely scattered membership.

On recommendation of the Development Committee the Society established a semi-permanent Board of Investigation and Coördination to direct (*a*) an active campaign for the promotion of engineering education in the light of the needs of the future, as these needs may be developed, (*b*) the coördination of the activities of the various agencies interested in promoting engineering education and (*c*) a program of research in the field of engineering education.

The Board was authorized to seek financial support for its program and, as soon as practicable, appoint a Director and staff to devote their full time to work under its direction; that coöperating committees should be set up in the several engineering schools; and that the national engineering societies should be invited to establish a joint advisory council on engineering education, with special regard to its bearings on the life and progress of the profession.

Membership of the Board.

The membership of the Board is made up of five members from the Society at large, drawn from various branches of the engineering profession, two members from outside the engineering profession who represent the viewpoint of the trained teacher, and the President of the Society, ex-officio. Vacancies in the Board are filled by the Council of the Society on recommendation by the Board. The Secretary of the Society is ex-officio Secretary of the Board, but not a member. The terms of service of the members at large end in successive years, a plan which will ultimately make the normal term five years and which combines the degree of continuity and rotation appropriate for the work of such a body.

The Carnegie Grant.

The Carnegie Corporation, on the basis of proposals made by the Board of Investigation and Coördination, generously set aside a fund of $108,000 to finance a three-year program of inquiry and development. The program is intended to supplement and continue the work done by Dr. C. R. Mann under the auspices of the Carnegie Foundation for the Advancement of Teaching. The responsibility for the conduct and findings of the work to be carried on under the present grant was placed entirely on the Society.

The following excerpt from the proposals on which the grant was based indicate the scope of the program:

"It is therefore proposed that the investigations of this Society be directed to a study of the objects of engineering education and the fitness of the present-day curriculum for preparing the student for his

profession. It will study the process by which the curriculum of fifty years ago has come to its present form; it will seek to set forth the nature and the weakness of the curriculum as at present administered; and it will indicate such modifications or developments as would seem to make for a sound, well-balanced, and fruitful course of study for engineering students.

"The following organization and program is suggested as one fitted to this investigation:

"1. The inquiry shall be carried on under the general direction of a committee appointed by the Society for the Promotion of Engineering Education, with the understanding that this committee shall include at least two men chosen from outside the Society and the engineering profession, whose point of view will be primarily that of the trained teacher.

"2. The active conduct of the study will be under the supervision of a Director appointed by the committee, whose office shall be in New York, and if possible, in the Engineering Building. The publication of the results of the study will be also in the hands of the Director.

"3. The Director shall organize committees in the faculties of as large a number of engineering schools as may be practicable, who shall coöperate with the committee and with the Society for the Promotion of Engineering Education in the prosecution of this study.

"4. Inasmuch as a study of the engineering curriculum of American schools should include a knowledge of, and comparison with, the best schools in Europe, it is considered necessary that the Director of the Committee shall, as soon as his work is organized, visit the engineering schools of European countries as may throw light upon the best methods in engineering education."

Director and Staff.

The Board of Investigation and Coördination engaged as Director of Investigations, Mr. W. E. Wickenden, formerly a member of the faculty of the Massachusetts Institute of Technology and more recently Assistant Vice President in the personnel staff of the American Telephone and Telegraph Company. The Director was authorized to engage a staff of assistants as required by the work.

Headquarters of the Board.

The offices of the Director and the headquarters of the Board are in Room 1607, Engineering Societies Building, 33 West 39th Street, New York City.

Program of the Board.

The Board aims to stimulate and coördinate the work of a large group of coöperating agencies. It conceives that the present investigation

should be made from within the engineering schools and from within the engineering profession, but that the fullest use should be made of the counsel of educators in other fields and of the representatives of the industrial and social agencies largely served by engineers. These coöperating agencies include:

1. Committees of survey and investigation in the faculties of the several engineering colleges.

2. Investigative committees on various departments of instruction and related problems of administration appointed from the membership of the Society at large.

3. A joint advisory council of the larger national engineering societies.

4. A joint advisory committee with the National Industrial Conference Board, concerned with engineering education and the industries.

5. The educational committees of numerous engineering and semi-professional organizations.

6. The United States Bureau of Education.

7. The professional educational organizations.

8. The endowed educational foundations. Other coöperating agencies will be recognized or constituted as occasion arises.

Through the above-named agencies the Board will endeavor to assemble a body of evidence and judgment on the basic conditions underlying the curricula and teaching processes of the engineering schools. These conditions include among others:

1. The qualifications and characteristics of engineering students.

2. The methods of guidance and selection which determine the make-up of engineering student bodies.

3. The educational significance of the extra-curricular activities of engineering students.

4. The qualifications and the professional and economic status of engineering teachers.

5. The methods by which graduates are introduced to active professional or industrial life and the provision which is made or may be made at this stage for their further education and training.

6. The activities and responsibilities of alumni in their years of maturity.

7. Trends in the evolution of the work and functions of the engineering professions.

8. The extent of the professional and industrial demand in the several branches of engineering service.

9. The judgments of the profession at large as to the educational standards which the profession should seek to maintain.

10. The relations of the size of engineering colleges, their economic environment, their resources and form of financial support, and the

proximity of other institutions to the degree and kind of courses appropriate for the several institutions.

The Board plans to carry out a study of the evolution of engineering curricula in American and Canadian institutions with a view to revealing the underlying philosophy which has controlled these developments. It also plans an extensive study of the organization and conduct of engineering education in the more advanced countries of Europe. In connection with these studies the Board will give careful consideration to recent advances in the fields of psychology and educational theory.

In all its activities it is the aim of the Board to assemble and make available to the schools the evidence and the consensus of professional judgment which may assist them in adapting their programs to present and future needs, rather than to evolve and promote any standardized educational plan.

COUNCILORS (appointed by Engineering Societies).

American Society of Civil Engineering:

SHENEHON, F. C., 208 South LaSalle Street, Chicago, Ill.
SMITH, J. WALDO, Municipal Building, New York City.

American Institute of Electrical Engineers:

DUNN, GANO, 43 Exchange Place, New York City.
JEWETT, F. B., 195 Broadway, New York City.

American Society of Mechanical Engineers:

HARRINGTON, JOHN L., 1012 Baltimore Avenue, Kansas City, Mo.
SCOTT, FRANK A., Warner & Swasey Company, Cleveland, O.

American Institute of Mining and Metallurgical Engineers, and the Mining and Metallurgical Society of America:

KELLY, WILLIAM, Vulcan, Mich.
ROGERS, ALLEN H., 42 Broadway, New York City.

COMMITTEES.

In order that the work of the Society may be continuous and progressive a large part of it is conducted by committees under the direction of the Committee on Committees. The specific work assigned to certain committees for the present year is given in connection with the respective committees.

Members having matters they desire to take up with any chairman are invited to correspond directly with him.

1. **Executive Committee:** P. F. Walker, *Chairman,* University of Kansas, Lawrence, Kans.; W. O. Wiley and F. L. Bishop.
2. **Publication Committee:** P. F. Walker, *Chairman,* C. F. Scott and F. L. Bishop.
3. **Program Committee:** P. F. Walker, *Chairman,* H. S. Boardman, O. J. Ferguson, W. O. Wiley, F. L. Bishop.
4. **Committee on Committees:** P. F. Walker, *Chairman,* H. S. Boardman, O. J. Ferguson, W. O. Wiley, F. L. Bishop and H. S. Evans.
5. **Membership Committee:** G. C. Shaad, *Chairman,* University of Kansas, Lawrence, Kans.; A. M. Greene, *Chairman,* District No. 1, Princeton University, Princeton, N. J.; E. A. Hitchcock, *Chairman,* District No. 2, The Ohio State University, Columbus, O.; A. C. Lanier, *Chairman,* District No. 3, University of Missouri, Columbia, Mo.; G. R. Chatburn, *Chairman,* District No. 4, University of Nebraska, Lincoln, Nebr.; J. F. Merrill, *Chairman,* District No. 5, University of Utah, Salt Lake City.
6. **Sections and Branches:** H. S. Boardman, *General Chairman,* and *Chairman* of District No. 1, University of Maine; H. E. Dyche, *Chairman,* District No. 2, University of Pittsburgh; R. S. King, *Chairman,* District No. 3, Georgia School of Technology; C. I. Corp, *Chairman,* District No. 4, University of Wisconsin; F. C. Bolton (A. & M. College of Texas) and H. V. Carpenter (State College of Washington), *Chairmen* of District No. 5.
7. **Institutional Committee:** O. J. Ferguson, *Chairman,* University of Nebraska; Lincoln, Nebr.
8. **Admission and Freshmen:** W. T. Magruder, *Chairman,* The Ohio State University, Columbus, O.; Geo. J. Hood, L. P. Rondinella, L. L. Thurstone, C. H. Warren.
9. **Industrial Engineering:** J. W. Roe, *Chairman,* New York University, New York City; J. O. Keller and Herman Schneider.
10. **Mathematics:** E. J. Berg, *Chairman,* Union University, Schenectady, N. Y.; J. A. Dent, D. C. Jackson, Jr., H. W. Tyler.
11. **Chemistry:** R. M. Bird, Chairman, University of Virginia, University, Va.; J. H. James and J. R. Withrow.

12. **English:** J. R. Nelson, *Chairman,* University of Michigan, Ann Arbor, Mich.; W. O. Birk, F. E. Seavey, K. O. Thompson and S. A. Harbarger.

13. **Physics:** W. S. Franklin, *Chairman,* Massachusetts Institute of Technology, Cambridge, Mass.; G. W. Stewart and D. C. Miller.

14. **Metallurgy:** C. H. Fulton, *Chairman,* Missouri School of Mines, Rolla, Mo.; Dorsey A. Lyon, R. S. MaCaffrey, Bradley Stoughton, and F. A. Thomson.

15. **Civil Engineering:** W. K. Hatt, *Chairman,* Purdue University, La-Fayette, Ind.; W. C. Hoad, L. W. McIntyre, H. J. Hughes, G. J. Davis, A. N. Johnson.

16. **Mechanical Engineering:** A. C. Willard, *Chairman,* University of Illinois, Urbana, Ill.; F. H. Vose, L. V. Larkins, G. L. Larson, and J. A. Hunter.

17. **Electrical Engineering:** H. E. Dyche, *Chairman,* University of Pittsburgh, Pittsburgh, Pa.; Comfort A. Adams, H. V. Bozell, F. A. Fish and T. R. Rosebrugh.

18. **Mining Engineering:** G. M. Butler, *Chairman,* University of Arizona, Tucson, Ariz.; B. B. Gottsberger, T. J. Hoover, F. W. Sperr and Robert M. Raymond.

19. **Drawing and Design:** R. S. Kirby, *Chairman,* Yale University, New Haven, Conn.; F. G. Higbee, O. A. Leutwiler, T. E. French and A. L. Grover.

20. **Standardization of Technical Nomenclature:** John T. Faig, *Chairman,* Ohio Mechanics Institute, Cincinnati, O.; Sanford A. Moss, J. E. Emswiler, R. L. Daugherty.

21. **R. O. T. C.:** O. M. Leland, *Chairman,* University of Minnesota, Minneapolis, Minn.; A. A. Potter, C. R. Mann, and W. N. Barnard.

23. **Committee to Coöperate with National Engineering Societies:** D. C. Jackson, *Chairman,* A.I.E.E., Massachusetts Institute of Technology, Cambridge, Mass.; J. C. Tracy, A.S.C.E.; F. W. McNair, A.I.M. & M.E.; and A. M. Greene, A.S.M.E.

24. **Committee on Constitution:** W. G. Raymond, *Chairman,* State University of Iowa; C. S. Howe and C. C. Williams.

25. **Safety:** J. O. Keller, *Chairman,* Pennsylvania State College, State College, Pa.; R. M. Raymond, H. J. Hughes, F. P. McKibben, M. E. Cooley and W. T. Magruder.

26. **Relations of Engineering Colleges with Railroads:** E. C. Schmidt, *Chairman,* University of Illinois, Urbana, Ill.; G. F. Swain, W. G. Raymond, H. E. Riggs, C. H. Mitchell, F. E. Turneaure, Anson Marston, M. S. Ketchum, A. A. Potter.

ADVISORY CONFERENCE COMMITTEE OF THE NATIONAL INDUSTRIAL CONFERENCE BOARD AND THE SOCIETY.

Representing Industry.

BUSH, S. P., President, Buckeye Steel Castings Co., Columbus, O.

COFFIN, H. E., Vice-President, Hudson Motor Car Co., Detroit, Mich.

DICKSON, T. C., Col., U.S.A., Commanding Officer, U. S. Arsenal, Watertown, Mass.

ELLIOTT, HOWARD, Chairman, Northern Pacific R.R., New York City.

HERR, E. M., President, Westinghouse, E. & M. Co., East Pittsburgh, Pa.

NICHOLS, WM. H., Chairman, Allied Chemical & Dye Corp., New York City.

ROGERS, A. H., Consulting Engineer, 42 Broadway, New York City.

SHARPE, HENRY D., Treasurer, Brown & Sharpe Mfg. Co., Providence, R. I.

Representing Engineering Education.

FERNALD, R. H., Professor of Mechanical Engineering, University of Pennsylvania.

HUGHES, H. J., Dean, Harvard Engineering School.

JACKSON, D. C., Professor of Electrical Engineering, Massachusetts Institute of Technology.

MCNAIR, F. W., President, Michigan College of Mines.

ROE, J. W., Professor of Administrative Engineering, New York University.

SCHNEIDER, H., Dean, College of Engineering and Commerce, University of Cincinnati.

SCOTT, C. F., Professor of Electrical Engineering, Sheffield Scientific School, Yale University.

LIST OF INSTITUTIONAL MEMBERS.

MUNICIPAL UNIVERSITY OF AKRON, Collège of Engineering, Akron, O., Parke R. Kolbe, President 1914

ALABAMA POLYTECHNIC INSTITUTE, Auburn, Ala., Spright Dowell, President 1914

UNIVERSITY OF ALABAMA, College of Engineering, University, Ala., Geo. Jacob Davis, Jr., Dean 1923

UNIVERSITY OF ALBERTA, Faculty of Applied Science, Edmonton, Alberta, Canada, R. W. Boyle, Dean 1924

UNIVERSITY OF ARIZONA, Tucson, Ariz., C. H. Marvin, President .. 1914

UNIVERSITY OF ARKANSAS, Fayetteville, Ark., John C. Futrall, President 1921

ARMOUR INSTITUTE OF TECHNOLOGY, Chicago, Ill., H. M. Raymond, President 1921

POLYTECHNIC INSTITUTE OF BROOKLYN, Brooklyn, N. Y., Fred W. Atkinson, President 1921

BROWN UNIVERSITY, Providence, R. I., W. H. P. Faunce, President. 1914

UNIVERSITY OF CALIFORNIA, Berkeley, Calif., William Wallace Campbell, President 1913

CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena, Calif., Robert A. Millikan, Chairman, Executive Council 1913

CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa., Thomas S. Baker, President 1915

CASE SCHOOL OF APPLIED SCIENCE, Cleveland, O., Chas. S. Howe, President 1913

CATHOLIC UNIVERSITY OF AMERICA, Washington, D. C., Thomas J. Shahan, Rector 1917

UNIVERSITY OF CINCINNATI, Cincinnati, O., Frederick C. Hicks, President 1917

THE CITADEL, The Military College of South Carolina, Charleston, S. C., O. J. Bond, President 1914

CLEMSON COLLEGE, Clemson College, S. C., S. B. Earle, Acting President 1913

UNIVERSITY OF COLORADO, Boulder, Colo., George Norlin, President. 1915

COLORADO AGRICULTURAL COLLEGE, Fort Collins, Colo., Chas A. Lory, President 1923

COLUMBIA UNIVERSITY, New York City, N. M. Butler, President.... 1923

CORNELL UNIVERSITY, Ithaca, N. Y., Livingston Farrand, President. 1913

UNIVERSITY OF DELAWARE, Newark, Del., Walter Hullihen, President 1916

UNIVERSITY OF DETROIT, Detroit, Mich., Wm. T. Doran, President 1924

INSTITUTIONAL MEMBERS.

Doherty Training School, Toledo, O., H. L. Doherty, President. 1918
Drexel Institute, Philadelphia, Pa., K. G. Matheson, President.. 1914
Ecole Polytechnique, Montreal, Canada, A. Lynn, Director..... 1917
The George Washington University, Washington, D. C., William Mather Lewis, President 1913
Georgia School of Technology, Atlanta, Ga., M. L. Brittain, President 1913
The Harvard Engineering School, Harvard University, Cambridge, Mass., H. J. Hughes, Dean..... 1919
The University of Hawaii, Honolulu, T. H., A. L. Dean, President 1923
University of Illinois, Urbana, Ill., David Kinley, President.... 1924
Iowa State College, Ames, Ia., Raymond A. Pearson, President. 1913
State University of Iowa, Iowa City, Ia., Walter A. Jessup, President 1914
John B. Stetson University, College of Engineering, DeLand, Fla., Lincoln Hulley, President..... 1923
Johns Hopkins University, Baltimore, Md., Frank J. Goodnow, President 1921
Kansas State Agricultural College, Manhattan, Kans., Wm. Marion Jardine, President..... 1915
The University of Kansas, Lawrence, Kans., Earnest H. Lindley, Chancellor 1914
Lafayette College, Easton, Pa., J. H. MacCracken, President... 1915
Lehigh University, Bethlehem, Pa., C. R. Richards, President .. 1914
McGill University, Montreal, Canada, F. D. Adams, Dean, Faculty of Applied Science 1924
University of Maine, Orono, Me., C. C. Little, President 1917
Marquette University, Milwaukee, Wis., Herbert C. Noonan, President 1919
University of Maryland, College Park, Md., A. F. Woods, President 1923
Massachusetts Institute of Technology, Cambridge, Mass., S. W. Stratton, President 1913
Miami University, Oxford, O., Raymond M. Hughes, President... 1913
Michigan College of Mines, Houghton, Mich., F. W. McNair, President 1914
University of Michigan, Ann Arbor, Mich., Marion LeRoy Burton, President 1913
University of Minnesota, Minneapolis, Minn., Lotus D. Coffman, President 1919
University of Missouri, Columbia, Mo., John Carleton Jones, President 1914

INSTITUTIONAL MEMBERS.

1918 Montana State College, Bozeman, Mont., Alfred Atkinson, President 1923

1914 National Southwestern University, Nanking, China, T. E. Mao, Dean 1923

1917 University of Nebraska, Lincoln, Nebr., Samuel Avery, Chancellor 1914

1913 College of Engineering of the Newark Technical School, Newark, N. J., Allan R. Cullimore, Director 1922

1913 University of New Brunswick, Fredericton, N. B., Earle O. Turner, Professor of Civil Engineering 1923

1919 University of New Hampshire, Durham, N. H., R. D. Hetzel, President 1923

1923 New Mexico College of A. & M. Arts, State College, N. Mex., H. L. Kent, President 1917

1924 New Mexico School of Mines, Socorro, N. Mex., E. H. Wells, President 1923

1913 New York, College of the City of, New York City, Sidney E. Mezes, President 1921

1914 New York University, New York, N. Y., Elmer E. Brown, Chancellor 1913

1923 University of North Carolina, Chapel Hill, N. C., Harry Woodburn Chase, President 1917

1921 North Carolina State College of Agriculture and Engineering, State College Station, Raleigh, N. C., W. S. Riddick, President 1920

1915 North Dakota, University of, University Station, Grand Forks, N. D., Thos. F. Kane, President 1913

1914 Northeastern College, School of Engineering, Boston, Mass., Carl S. Ell, Dean 1921

1924 University of Notre Dame, Notre Dame, Ind., Matthew Walsh, President 1913

1917 Ohio Northern University, Ada, Ohio, A. E. Smith, President 1923

1919 Ohio State University, The, Columbus, O., Wm. O. Thompson, President 1921

1923 State University of Oklahoma, Norman, Okla., Stratton D. Brooks, President 1913

1918 Oregon Agricultural College, Corvallis, Ore., W. J. Kerr, President 1917

1913 The Pennsylvania State College, John M. Thomas, President, State College, Pa. 1914

1914 Towne Scientific School, University of Pennsylvania, Philadelphia, Pa., John Frazer, Dean 1914

INSTITUTIONAL MEMBERS.

University of Pittsburgh, Pittsburgh, Pa., John G. Bowman, Chancellor 1913

University of Porto Rico, San Juan, P. R., Juan B. Huyke, Chancellor 1920

Princeton University, Princeton, N. J., Arthur M. Greene, Jr., Dean 1922

Purdue University, LaFayette, Ind., Edward Charles Elliott, President 1915

Queen's University, Kingston, Ont., Canada, R. Bruce Taylor, Principal 1922

Rensselaer Polytechnic Institute, Troy, N. Y., Palmer C. Ricketts, Director 1922

Rhode Island State College, Kingston, R. I., Howard Edwards, President 1913

Rice Institute, Houston, Tex., Edgar Odell Lovett, President.... 1924

Rose Polytechnic Institute, Terre Haute, Ind., Frank C. Wagner, President..... 1916

Royal Military College, Kingston, Canada, E. Schmidlin, Professor of Engineering..... 1924

Rutgers College, New Brunswick, N. J., W. H. S. Demarest, President 1914

Sheffield Scientific School of Yale University, New Haven, Conn., Charles Hyde Warren, Dean 1917

University of South Carolina, Columbia, S. C., Wm. D. Melton, President 1914

Stanford University, Stanford University, Calif., Ray Lyman Wilbur, President..... 1917

Stevens Institute of Technology, Hoboken, N. J., A. C. Humphreys, President..... 1913

Swarthmore College, Swarthmore, Pa., Frank Aydelotte, President 1921

Syracuse University, Syracuse, N. Y., Charles W. Flint, Chancellor 1913

Tennessee University, Knoxville, Tenn., Harcourt A. Morgan, President 1921

A. & M. College of Texas, College Station, Tex., Wm. Bennet Bizzell, President 1916

University of Texas, Austin, Tex., Robert E. Vinson, President.. 1919

Toledo, University of the City of, Toledo, O., A. M. Stowe, President 1915

University of Toronto, Toronto, Ont., Canada, R. A. Falconer, President 1917

INSTITUTIONAL MEMBERS.

Tulane University of Louisiana, New Orleans, La., Albert B. Dinwiddie, President	1921
Tufts College, Tufts College, Mass., John Albert Cousens, President	1914
University of Utah, Salt Lake City, Utah, George Thomas, President	1914
Vanderbilt University, Nashville, Tenn., J. H. Kirkland, Chancellor	1914
University of Vermont, Burlington, Vt., Guy W. Bailey, President	1915
Villanova College, Villanova, Pa., Francis A. Driscoll, President	1921
University of Virginia, University, Va., Edwin A. Alderman, President	1915
Washington University, St. Louis, Mo., Herbert Spencer Hadley, Chancellor	1914
University of Washington, Seattle, Wash., Henry Suzzallo, President	1913
Wentworth Institute, Boston, Mass., A. L. Williston, Principal	1917
School of Engineering and Mining, University of Western Australia, Perth, Western Australia, H. I. Whitfield, Dean	1923
University of Wisconsin, Madison, Wis., Edward A. Birge, President	1914
Worcester Polytechnic Institute, Worcester, Mass., Ira N. Hollis, President	1913
Total Institutional Members	105

LIST OF INDIVIDUAL MEMBERS.

Revised to March 1st, 1924.

AAGAARD, ARTHUR H., Assistant Professor of Steam and Gas Engineering, University of Wisconsin, Madison, Wis. 1922

ABBOTT, ROBINSON, Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1919

ADAMS, COMFORT, A., Abbott and James Lawrence Professor of Engineering, Harvard Engineering School, Cambridge, Mass.. 1894

ADAMS, EDWARD L., Associate Professor of Romance Languages, University of Michigan, Ann Arbor, Mich. 1921

ADAMS, F. J., Assistant Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1912

AGG, T. R., Professor of Highway Engineering, Iowa State College, Ames, Iowa..... 1923

AIREY, JOHN, Professor of Engineering Mechanics; Director, Engineering Shops, University of Michigan, Ann Arbor, Mich. .. 1920

AKELEY, L. E., Dean of the College of Engineering and Professor of Physics, University of South Dakota, Vermilion, S. D..... 1910

ALDEN, C. R., Dean, College of Engineering, Ohio Northern University, Ada, O. 1921

ALDEN, GEORGE IRA, Chairman, Board of Directors, Norton Company, 48 Queen Street, Worcester, Mass. 1919

ALDRICH, WM. S., American Bridge Co., M. M. Dept., Gary, Ind. 1893

ALEXANDER, MAGNUS W., Managing Director, National Industrial Conference Board, Consulting Engineer, General Electric Co., New York City 1911

ALLEN, C. FRANK, Retired, 88 Montview St., West Roxbury, Mass. 1893

ALLEN, CHESTER, Assistant Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1917

ALLEN, C. M., Professor of Hydraulic Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1903

ALLEN, F. G., Professor of General Engineering Drawing, University of Colorado, Boulder, Colo. 1913

ALLEN, HERMAN C., Professor of Chemistry, University of Kansas, Lawrence, Kans. 1922

ALLISON, W. F., Professor of Municipal and Highway Engineering, University of Washington, Seattle, Wash. 1915

ANDERSON, D. S., Professor of Electrical Engineering, Dean of the College of Engineering, Tulane University, New Orleans, La... 1900

ANDERSON, F. PAUL, Dean of the College of Mechanical and Electrical Engineering, Professor of Mechanical Engineering and Director of the Experiment Engineering Laboratories, University of Kentucky, Lexington, Ky. 1894

ANDERSON, JAMES A., Associate Professor of Civil Engineering, Virginia Military Institute, Lexington, Va. 1922

ANDERSON, STEWART W., Associate Professor of Electrical Engineering, Virginia Military Institute, Lexington, Va. 1921

ANDERSON, WILLIAM, Professor of Physics and Electrical Engineering, Rhode Island State College, Box 74, Kingston, R. I. 1910

ANDREWS, WILLIAM O., Instructor in Civil Engineering, The Rice Institute, Houston, Tex. 1923

ANDROS, S. O., Editor, *Oil News*, 910 So. Michigan Boulevard, Chicago, Ill. 1913

ANGEL, WM. P., Assistant Professor of Physics, Tulane University, New Orleans, La. 1914

ANTHONY, G. C., Professor of Graphics and Dean of the Engineering School, Tufts College, Tufts College, Mass. 1896

APPLEBY, W. R., Director, Mines Experiment Station; Consulting Metallurgist, U. S. Bureau of Mines, Minneapolis, Minn. 1913

ARCHIBALD, FRANK, Instructor in Mechanical Engineering, Rhode Island State College, Kingston, R. I. 1922

ARCHIBALD, LEON, Instructor in Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1919

ARKLEY, L. M., Assistant Professor of Mechanical Engineering, University of Toronto, Toronto, Canada 1908

ARMSBY, HENRY H., Registrar and Student Advisor, Missouri School of Mines and Metallurgy, Rolla, Mo. 1917

ARMSTRONG, GEORGE E. W., Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1922

ARMSTRONG, RALPH A., Professor of Metal Work and Industrial Engineering, Northern Normal and Industrial School, Aberdeen, S. D. 1923

ARNOLD, BION J., Consulting Electrical Engineer, 1165–230 S. Clark St., Chicago, Ill. 1906

ASHTON, C. H., Professor of Mathematics, University of Kansas, Lawrence, Kans. 1915

ATKINSON, JOHN A., Assistant Professor of English, Iowa State College, Ames, Iowa 1922

ATKINSON, THOS. W., Dean of the College of Engineering, Louisiana State University, Baton Rouge, La. 1907

AUSTIN, F. E., Author and Publisher, Hanover, N. H. 1912

LIST OF MEMBERS.

AVRAM, M. H., Management and Industrial Engineer, 360 Madison Avenue, New York, N. Y. 1918

AYDELOTTE, FRANK, President, Swarthmore College, Swarthmore, Pa. 1915

AYER, FRED. E., Dean, College of Engineering and Commerce, Municipal University of Akron, Akron, O. 1907

AYRES, FRANKLIN H., Professor of Physics, Junior College of Kansas City, Kansas City, Mo. 1918

BABBITT, HAROLD E., Associate Professor of Sanitary Engineering, University of Illinois, Urbana, Ill. 1922

BABCOCK, E. J., Dean of the College of Engineering, Professor of Industrial Chemistry, Mining and Metallurgy and Director of Experimental Engineering Stations, University of North Dakota, Grand Forks, N. D. 1907

BABCOCK, JOHN B., c/o Affiliated Technical Societies of Boston, 715 Tremont Temple, Boston, Mass. 1923

BACON, G. M., Civil Engineer, 138 P St., Salt Lake City, Utah.... 1907

BACON, GEORGE P., Professor of Physics, Tufts College, Tufts College, Mass. 1922

BAENDER, F. G., Professor of Heat Power Engineering, Supt., Mechanic Arts, State University of Arkansas, Fayetteville, Ark... 1917

BAGLEY, JOHN B., Professor and Head Dept. Textile Engineering, A. & M. College of Texas, College Station, Tex. 1923

BAILEY, BENJ. F., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1920

BAILEY, JOHN B., Instructor in Electrical Design, Purdue University, La Fayette, Ind. 1922

BAKER, CECIL F., Professor of Architecture, University of Cincinnati, Cincinnati, O. 1917

BAKER, IRA O., Professor Emeritus of Civil Engineering, University of Illinois, Urbana, Ill. 1893

BAKER, RAY P., Professor of English, Rensselaer Polytechnic Institute, Troy, N. Y. 1919

BAKER, THOMAS S., President, Carnegie Institute of Technology, Pittsburgh, Pa. 1923

BALL, ALBERT, Professor of Physics, Cooper Union, New York, N. Y. 1908

BALL, THEODORE R., Associate Professor of Chemistry, Washington University, St. Louis, Mo. 1922

BALLARD, W. C., JR., Assistant Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. 1923

BANGRATZ, ERNEST G., Instructor, Electrical Engineering Dept., Massachusetts Institute of Technology, Cambridge, Mass. ... 1922

LIST OF MEMBERS.

1918 BARBA, C. E., Supt. Osgood Bradley Car Co., Worcester, Mass. ... 1915

1915 BARK, ELMER, Combustion Engineer, Bureau of Water, Philadelphia, Pa. 1912

1907 BARNARD, W. N., Professor of Power Engineering, Cornell University, Ithaca, N. Y. 1910

1918 BARNES, F. A., Director, School of Civil Engineering, Professor of Railroad Engineering, Cornell University, Ithaca, N. Y. 1904

1922 BARNES, GEORGE E., Instructor in Civil Engineering, University of Florida, Gainesville, Fla. 1924

BARNEY, EDGAR S., Principal, Hebrew Technical Institute, 36 Stuyvesant St., New York, N. Y. 1912

1907 BARNEY, S. E., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1894

1923 BARROWS, H. K., Professor of Hydraulic Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1902

1907 BARROWS, W. E. JR., Professor of Electrical Engineering, University of Maine, Orono, Me. 1908

1922 BARTHOLOMEW, H. C., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1915

1917 BARTOW, EDWARD, Professor and Head, Department of Chemistry, State University of Iowa, Iowa City, Ia. 1921

1923 BASHIOUM, HARRISON C., Professor and Head, Dept. of Chemical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1920

1920 BASQUIN, O. H., Professor of Applied Mechanics, Northwestern University, Evanston, Ill. 1908

1922 BASS, FREDERIC, Head Department of Civil Engineering, University of Minnesota, Minneapolis, Minn. 1908

1917 BATES, ONWARD, Civil Engineer, 332 S. Michigan Ave., Chicago, Ill. 1903

1893 BAUER, F. S., Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1914

1919 BAUER, W. C., Professor of Electrical Engineering, Northwestern University, Evanston, Ill. 1910

1923 BAUMER, HERBERT, Professor of Architecture, Department of Engineering, Ohio State University, Columbus, O. 1923

1908 BEACH, ROBIN, Acting Head, Dept. of Electrical Engineering, The Polytechnic Institute of Brooklyn, Director of Education, Brooklyn Edison Co., Inc., Brooklyn, N. Y. 1917

1922 BEALE, FRANK S., Instructor in Mathematics, University of Maine, Orono, Me. 1922

1923 BEAVER, J. L., Assistant Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1914

1922

LIST OF MEMBERS.

BECK, WILLIAM A., Professor of Physics, University of Dayton, Dayton, O. 1923

BECKER, LEWIS M., Instructor in Mathematics, University of Minnesota, Minneapolis, Minn. 1922

BECKWITH, WIGHTMAN S., Professor of Mathematics, University of Chicago, Chicago, Ill. 1919

BEGGS, G. E., Associate Professor of Civil Engineering, Princeton University, Princeton, N. J. 1915

BELDEN, HENRY M., Professor of English, University of Missouri, Columbia, Mo. 1922

BENEDICT, BRUCE W., Manager, Shop Laboratories, University of Illinois, Urbana, Ill. 1912

BENEDICT, H. G., Hornell, N. Y. 1913

BENEDICT, H. Y., Professor of Applied Mathematics and Dean of the College of Arts and Sciences, University of Texas, Austin, Texas 1906

BENKERT, H. N., Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1909

BENNETT, EDW., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1909

BENTLEY, WALTER J., Instructor in General Chemistry, Armour Institute of Technology, Chicago, Ill. 1923

BENTON, J. R., Professor of Physics and Electrical Engineering, and Dean of the College of Engineering, University of Florida, Gainesville, Fla. 1905

BENZENBERG, G. H., Consulting Civil Engineer, Retired, 1018 Wells Building, Milwaukee, Wis. 1907

BERARD, S. J., Assistant Professor of Drawing and Machine Design, Brown University, Providence, R. I. 1912

BERENTS, H., Consulting Civil Engineer, 12 French Bund, Shanghai, China 1911

BERG, E. J., Professor of Electrical Engineering, Union University, Schenectady, N. Y. 1910

BERRY, H. C., Professor of Materials of Construction, University of Pennsylvania, Philadelphia, Pa. 1916

BERRY, W. J., Associate Professor of Mathematics, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1910

BEVAN, W. A., Instructor in Aviation Ground School, in charge of the Dept., Culver Military Academy, Culver, Ind. 1915

BIBBER, HAROLD W., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

BIBERSTEIN, FRANK A., JR., Instructor in Civil Engineering and Drawing, Catholic University of America, Washington, D. C. 1924

LIST OF MEMBERS.

BIGELOW, ROYAL G., Assistant Professor of Shop Work, Northwestern University, Evanston, Ill. 1922

BILLINGS, J. HARLAND, Professor of Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1919

BILLMYER, CARROLL D., Associate Professor of Machine Design; Director of Engineering Course (Co-Operative Plan), Georgia School of Technology, Atlanta, Ga. 1917

BIRD, BYRON, Faculty Exchange Box 147, College Station, Tex... 1923

BIRD, H. C., c/o Aird Don Co., River St., Troy, N. Y. 1914

BIRD, R. M., Professor of Chemistry, University of Virginia, University, Va. 1915

BIRD, WM. W., Professor of Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1910

BIRK, W. OTTO, Associate Professor of English, University of Colorado, Boulder, Colo. 1920

BISHOP, C. T., Assistant Professor of Structural Engineering, Yale University, New Haven, Conn. 1912

BISHOP, F. L., Dean School of Engineering, and School of Mines, Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1907

BISSELL, G. W., Dean of Engineering, Michigan Agricultural College, East Lansing, Mich. 1894

BLACK, R. M., Professor of Mining, University of Pittsburgh, Pittsburgh, Pa. 1912

BLAISDELL, A. H., Assistant Professor of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1921

BLAKE, FREDERIC C., Professor of Physics, The Ohio State University, Columbus, O. 1918

BLALOCK, GROVER C., Assistant Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1918

BLANCHARD, A. H., Professor of Highway Engineering and Highway Transport, University of Michigan, Ann Arbor, Mich. ... 1902

BLISS, COLLINS P., Professor of Mechanical Engineering, New York University, University Heights, New York City 1915

BLISS, HOWARD H., Director of Engineering Education, Riverside Junior College, Riverside, Calif. 1923

BLUMBERG, LEO, Assistant Professor of Mechanical Engineering, University of Delaware, Newark, Del. 1922

BLUME, L. F., Electrical Engineer, General Electric Co., Pittsfield, Mass. 1911

BOARDMAN, H. P., Professor of Civil Engineering, Director, Engineering Experiment Station, University of Nevada, Reno, Nev. 1914

BOARDMAN, H. S., Dean of the College of Technology and Professor of Civil Engineering, University of Maine, Orono, Me. 1903

BOERCHEL, W. H., Instructor in Mathematics, Georgia School of Technology, Atlanta, Ga. 1919

BOGARD, FRANK, Supt. Mechanical and Electrical Engineering Courses, Louisiana Industrial Institute, Ruston, La. 1914

BOGGS, GILBERT H., Professor of Inorganic Chemistry, Georgia School of Technology, Atlanta, Ga. 1919

BOLTON, F. C., Dean, School of Engineering, Professor of Electrical Engineering, A. and M. College of Texas, College Station, Texas 1910

BOOMSLITER, G. P., Professor of Mechanics, West Virginia University, Morgantown, W. Va. 1912

BOON, LEONARD F., Instructor in Civil Engineering, University of Minnesota, Minneapolis, Minn. 1922

BOOTHROYD, S. L., Professor of Astronomy and Geodesy, Cornell University, Ithaca, N. Y. 1908

BORING, MAYNARD M., Assistant Secretary, Student Committee, General Electric Co., Schenectady, N. Y. 1922

BOSTON, ORLAN W., Assistant Professor of Shop Practice, Acting Director, Engineering Shops, University of Michigan, Ann Arbor, Mich. 1921

BOUCHARD, HARRY, Assistant Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1921

BOWERMAN, M. R., Checker, Alliance Machine Co., Alliance, O. 1909

BOWLER, EDMOND W., Assistant Professor of Mathematics, University of New Hampshire, Durham, N. H. 1923

BOWMAN, HARRY L., Assistant Professor of Structural Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

BOWMAN, JOHN G., Chancellor, University of Pittsburgh, Pittsburgh, Pa. 1923

BOYD, ALFRED, Professor of Civil Engineering, University of North Dakota, Grand Forks, N. D. 1909

BOYD, EDWARD P., Dean of Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1924

BOYD, J. E., Professor of Mechanics, The Ohio State University, Columbus, O. 1907

BOYER, F. Q., National Industrial Conference Board, 703 Southern Building, Washington, D. C. 1912

BOYLE, A. C., JR., 162 No. 9th St., Laramie, Wyo. 1911

BOYLE, ROBERT W., Professor of Physics and Dean of the Faculty of Applied Science, University of Alberta, Edmonton, Canada 1923

BOYLE, WALTER W., 610 Ridgevue Ave., Bellevue, Pa. 1921

1919 BOYLSTON, H. M., Professor of Metallurgy, in charge of Dept. of Metallurgical and Mining Engineering, Case School of Applied Science, Cleveland, O. 1921

1914 BOZELL, H. V., 10th Ave. at 36th St., New York City 1912

1919 BRACKETT, B. B., Professor of Electrical Engineering, University of South Dakota, Vermillion, S. D. 1906

1910 BRACKETT, ELMER E., Professor of Agricultural Engineering, Principal U. of N. Trades School, Engineering Dept., College of Agriculture, Lincoln, Neb. 1920

1912 BRACKETT, R. D., Instructor in English, University of Michigan, Ann Arbor, Mich. 1923

BRADEN, CLARENCE C., Colorado School of Mines, Golden, Colo. 1923

1922 BRADFORD, J. N., Professor of Architecture and University Architect, The Ohio State University, Columbus, O. 1896

1908 BRADSHAW, GEORGE W., Assistant Professor of Civil Engineering, University of Kansas, Lawrence, Kans. 1924

1922 BRAGG, EDWARD M., Professor of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor, Mich. 1920

BRANDEBERRY, JOHN B., Associate Professor of Mathematics, University of Toledo, Toledo, O. 1923

1921 BRANDES, FRED C., Civil Engineer, Mamaroneck Road, White Plains, N. Y. 1920

1921 BRASEFIELD, S. E., Professor of Applied Mathematics, Rutgers College, New Brunswick, N. J. 1916

1909 BRAUNE, G. M., Dean, School of Engineering, University of North Carolina, Chapel Hill, N. C. 1914

1923 BRAUTLECHT, C. A., Professor of Chemistry, University of Maine, Orono, Me. 1922

1922 BRAY, H. C. C., Instructor to the Apprentices, Nova Scotia Steel and Coal Co., Ltd., New Glasgow, Nova Scotia, Canada 1916

1923 BRECKENRIDGE, L. P., Professor Emeritus of Mechanical Engineering, Sheffield Scientific School; The Brackens, North Ferrisburg, Vt. 1893

1909 BREED, C. B., Professor of Railway and Highway Engineering, Massachusetts Institute of Technology, Cambridge, Mass. .. 1904

1924 BRENNEMAN, JESSE L., Assistant Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans.... 1920

1907 BRESTH, ALEXANDER, Assistant Professor of Civil Engineering, University of Florida, Gainesville, Fla. 1923

1912 BRIGGS, H. B., Assistant Professor of Mechanical Engineering, North Carolina State College, Raleigh, N. C. 1923

1911 BRIGMAN, BENNETT M., Professor of Engineering, University of Louisville, Louisville, Ky. 1923

1923

1921

BRITTAIN, MARION L., President, Georgia School of Technology, Atlanta, Ga. 1923

BRITTON, LAWRENCE, Instructor in Practical Mechanics, Purdue University, LaFayette, Ind. 1922

BROCK, R. W., Dean, Faculty of Applied Science, University of British Columbia, Vancouver, B. C. 1923

BRODIE, HUGH, Assistant Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1915

BROOKE, W. E., Head of Department of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn. 1902

BROOKS, J. ANSEL, 8 Belvidere Place, Montclair, N. J. 1904

BROOKS, J. P., President, Clarkson College of Technology, Potsdam, N. Y. 1898

BROOKS, MORGAN, Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1899

BROWN, A. I., Assistant Professor of Steam Engineering, The Ohio State University, Columbus, O. 1914

BROWN, EDWARD C., Instructor in Mathematics, University of Maine, Orono, Me. 1922

BROWN, F. L., Professor of Mechanics, University of Kansas, Lawrence, Kans. 1915

BROWN, J. M., Professor of Civil Engineering, University of South Dakota, Vermilion, S. D. 1916

BROWN, R. A., Assistant Professor of Electrical Engineering, The Ohio State University, Columbus, Ohio 1917

BROWN, RALPH E., Instructor in Graphics and Mechanical Engineering, Tufts College, Tufts College, Mass. 1924

BROWN, S. L., Associate Professor of Physics, University of Texas, Austin, Tex. 1914

BROWNE, WM. HAND, JR., Professor of Electrical Engineering, North Carolina College of A. and E., State College Station, Raleigh, N. C. 1899

BRYANS, W. R., Associate Professor of Mechanics and Machine Design, New York University, New York, N. Y. 1908

BRYANT, J. M., Professor of Electrical Engineering, University of Texas, Austin, Tex. 1910

BUCHANAN, ROY O., Associate Professor of Electrical Engineering, University of Vermont, Burlington, Vt. 1922

BUCHER, PAUL, Assistant Professor of Steam Engineering, The Ohio State University, Columbus, O. 1920

BUCK, A. M., Associate Editor, *Electric Railway Journal*, 10th Ave., at 36th St., New York, N. Y. 1910

BULLOCK, W. E., Assistant Secretary, American Society of Mechanical Engineers, New York, N. Y. 1917

BUMP, M. R., Chief Engineer, Henry L. Doherty & Co., 60 Wall St., New York, N. Y. 1907

BUNN, JOHN W., Instructor in Industrial Engineering, University of Kansas, Lawrence, Kans. 1922

BURDEN, HARRY P., Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1921

BUREAU, E. A., Assistant Professor of Electrical Engineering, University of Kentucky, Lexington, Ky. 1923

BURGER, W. H., Professor of Civil Engineering, Northwestern University, Evanston, Ill. 1910

BURKHART, PAUL H., Instructor in Electrical Engineering, University of Illinois, Urbana, Ill. 1922

BURPEE, F. E., Professor of Mechanical Engineering, Bucknell University, Lewisburg, Pa. 1910

BURR, WM. H., Emeritus Professor of Civil Engineering, Columbia University, Consulting Engineer, 120 Broadway, New York, N. Y. 1893

BURROWS, E. N., Assistant Professor of Bridge Engineering, Cornell University, Ithaca, N. Y. 1923

BURSLEY, J. A., Professor of Mechanical Engineering, and Dean of Students, University of Michigan, Ann Arbor, Mich. 1910

BURT, H. J., Consulting Engineer, Holabird & Roche, Architects, 1027 Elmwood Ave., Wilmette, Ill. 1910

BURTON, A. E., Professor of Topographical Engineering, in charge of Department of Drawing, Massachusetts Institute of Technology, Cambridge, Mass. 1904

BUSH, V., Professor of Electric Power Transmission, Massachusetts Institute of Technology, Cambridge, Mass. 1923

BUTLER, G. M., Dean, College of Mines and Engineering, University of Arizona, Tucson, Ariz. 1916

BUTLER, JOE B., Associate Professor of Civil Engineering, Mo. School of Mines and Metallurgy, Rolla, Mo. 1922

BUTTERFIELD, A. D., Professor of Mathematics and Geodesy, University of Vermont, Burlington, Vt. 1908

BUTTERFIELD, THOMAS E., Professor of Heat Power Engineering, Lehigh University, Bethlehem, Pa. 1920

CADE, CLAUDE M., Assistant Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1921

CALDERWOOD, JAS. P., Professor of Mechanical Engineering, in charge Dept. of Mechanical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1919

LIST OF MEMBERS.

CALDWELL, EDWARD, Treasurer of the McGraw-Hill Book Co., Inc., 370 7th Ave., New York, N. Y. 1905

CALDWELL, F. C., Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1897

CALLAN, J. A. C., Head Professor of Civil Engineering, Alabama Polytechnic Institute; State Highway Commissioner, Auburn, Ala. 1909

CALLAN, JOHN GURNEY, Professor of Industrial Management, Graduate School of Business Administration, Harvard University, Cambridge, Mass. 1917

CAMPAMOR, J. A., Instructor in Modern Languages, Georgia School of Technology, Atlanta, Ga. 1919

CAMPBELL, MALCOLM M., Supervising Engineer, P. O. Box 385, Montreal, Que., Canada 1919

CAMPBELL, T. P., Dean, General Faculty, Virginia Polytechnic Institute, Blacksburg, Va. 1917

CANDEE, F. W., Instructor in Mechanical Engineering, University of Idaho, Moscow, Idaho 1924

CANFIELD, LLOYD A., Member of Firm, The Canfield Engineering Co., Structural Engineers, 406 Flynn Bldg., Des Moines, Ia.... 1919

CANNON, J. H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1915

CAPEN, S. P., Chancellor, University of Buffalo, Buffalo, N. Y. 1917

CAREY, CLIFTON O., Associate Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1921

CARLSON, W. W., Professor of Shop Practice and Superintendent of Shops, Kansas State Agricultural College, Manhattan, Kans. 1913

CARLOVITZ, G. H., Assistant Professor of Physics, Vanderbilt University, Nashville, Tenn. 1923

CARPENTER, D. E., Dean of the Faculty, International Correspondence Schools, Scranton, Pa. 1919

CARPENTER, EDWARD L., Associate Professor of Mechanical Engineering, The Clemson Agricultural College, Clemson College, S. C. 1922

CARPENTER, H. D., 10759 Prospect Ave., Chicago, Ill. 1910

CARPENTER, HUBERT V., Professor of Mechanical and Electrical Engineering, Dean, College of Mechanic Arts and Engineering, State College of Washington, Pullman, Wash. 1917

CARPENTER, L. G., Consulting Engineer, 1455 Gilpin St., Denver, Colo. 1895

CARREL, W. J., Associate Professor of Civil Engineering, University of Kentucky, Lexington, Ky. 1917

CARROLL, H. H., Assistant Professor Technical Drawing, Tufts College, Tufts College, Mass. 1911

CARSON, W. W., Emeritus Professor of Civil Engineering, University of Tennessee, Knoxville, Tenn. 1894

CARTY, J. J., Vice-President, American Telephone and Telegraph Co., 195 Broadway, New York, N. Y. 1907

CARY, EDWARD R., Professor of Railway Engineering and Geodesy, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

CASE, G. W., Chief Engineer, American City Engineering Co., 1310 Peoples Bank Bldg., Pittsburgh, Pa. 1914

CASTLE, DREW W., Instructor in Industrial Drawing, Joliet Township High School and Junior College, Joliet, Ill. 1923

CATLIN, W. G., Electrical Engineer, Shepard Electric Crane & Hoist Co., Montour Falls, N. Y. 1912

CAUGHEY, R. A., Associate Professor of Structural Engineering, Iowa State College, Ames, Iowa 1911

CAYWOOD, THOS. G., Associate Professor of Descriptive Geometry and Drawing, State University of Iowa, Iowa City, Iowa.... 1923

CHAMBERS, SHERMAN D., Assistant Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1921

CHANDLER, E. F., Professor of Civil Engineering, and in charge of Civil Engineering Course, University of North Dakota, University, N. D. 1907

CHARAVAY, M. A., Assistant Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914

CHARLES, ROLLIN L., Professor of Physics, Franklin and Marshall College, Lancaster, Pa. 1914

CHARTERS, WERRETT W., Director of Research Bureau for Retail Training, University of Pittsburgh, Pittsburgh, Pa. 1921

CHASE, C. H., Professor of Steam Engineering, Tufts College, Tufts College, Mass. 1900

CHATBURN, G. R., Professor and Chairman of the Department of Applied Mechanics and Machine Design, University of Nebraska, Lincoln, Nebr. 1899

CHEEK, FRANK J., JR., Assistant Professor of Structural Design, Kansas State Agricultural College, Manhattan, Kans..... 1924

CHESNEY, C. C., Manager and Chief Engineer, General Electric Co., Pittsfield, Mass. 1911

CHILES, GEORGE S., Consulting Engineer, Ohio Steel Foundry, Lima, O. 1919

CHILLMAN, EDWARD F., Professor of Descriptive Geometry, Stereotomy and Drawing, Rensselaer Polytechnic Institute, Troy, N. Y. 1920

CHRISTENSEN, GEO. L., Professor of Mechanical Engineering, Michigan College of Mines, Houghton, Mich. 1905

CHRISTIE, A. G., Professor of Mechanical Engineering, The Johns Hopkins University, Baltimore, Md. 1923

CHURCH, EDWIN F., JR., Professor of Mechanical Engineering, The Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1910

CISSEL, J. H., Associate Professor of Structural Engineering, University of Michigan, Ann Arbor, Mich. 1920

CLAPP, W. H., Professor of Mechanism and Machine Design, California Institute of Technology, Pasadena, Calif. 1914

CLARK, EDWIN E., Instructor in Physics and Electrical Engineering, South Dakota School of Mines, Rapid City, S. D. 1922

CLARK, FRANK D., Assistant Professor of Mechanical Engineering, Municipal University of Akron, Akron, O. 1922

CLARK, J. C., Associate Professor of Electrical Engineering, Leland Stanford, Jr. University, Stanford University, Calif. 1912

CLARK, LEROY W., Professor of Rational and Technical Mechanics, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

CLARKE, ELWYN L., Professor of Civil Engineering, Clemson College, Clemson College, S. C. 1921

CLEGHORN, M. P., Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1910

CLIFFORD, H. E., Gordon McKay Professor of Electrical Engineering, Harvard University, Cambridge, Mass. 1907

CLO, J. H., Professor and Head, Department of Physics, University of Pittsburgh, Pittsburgh, Pa. 1921

CLOKE, PAUL, Professor of Electrical Engineering, University of Arizona, Tucson, Ariz. 1919

CLOYD, EDWARD L., Dean of Students, North Carolina State College of A. & E., College Station, Raleigh, N. C. 1920

CLUTZ, FRANK H., B. F. Blough Professor of Civil Engineering, Gettysburg College, Gettysburg, Pa. 1922

COAHRAN, J. M., Keystone Wood Products Co., Colegrove, Pa. 1916

COBB, COLLIER, Professor and Head of the Department of Geology and Mineralogy, University of North Carolina, Chapel Hill, N. C. 1916

CODDINGTON, E. F., Professor of Mechanics, The Ohio State University, Columbus, O. 1911

CODWISE, HENRY R., Assistant Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1914

COFER, DAVID BROOKS, Professor of English, A. & M. College of Texas, College Station, Tex. 1922

1905 COFFIN, C. A., Chairman, Board of Directors, General Electric Co., 120 Broadway, New York, N. Y. 1911

1923 COLE, ALFRED D., Professor of Physics, Head of Department, The Ohio State University, Columbus, O. 1918

1910 COLER, CARL S., Manager, Educational Department, Westinghouse E. & M. Co., East Pittsburgh, Pa. 1919

1920 COLLYER, NORMAN, Famous Players-Lasky Corporation 485 Fifth Avenue, New York City 1919

1914 COMSTOCK, C. E., Professor of Mathematics, Bradley Polytechnic Institute, Peoria, Ill. 1909

1922 COMSTOCK, E. H., Professor of Mine Plant and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn. 1907

1922 COMSTOCK, F. M., Professor of Descriptive Geometry, Case School of Applied Science, Cleveland, O. 1907

1912 CONKLING, L. D., Professor of Civil Engineering, Montana State A. & M. College, Bozeman, Mont. 1912

1922 CONNELLEY, CLIFFORD B., Director of Industrial Relations, Carnegie Institute of Technology, Pittsburgh, Pa. 1924

1921 CONNER, S. L., Associate Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1912

1910 CONRAD, L. E., Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1908

1907 CONSOLIVER, EARL L., Director, Department of Automotive Electrotechnics, School of Engineering of Milwaukee, Milwaukee, Wis. 1918

1921 CONSTANT, F. H., Professor of Civil Engineering, Princeton University, Princeton, N. J. 1896

1919 COOK, A. L., Supervisor and Head of the Dept. of Industrial Electrical Engineering, Pratt Institute, Brooklyn, N. Y. 1913

1920 COOK, L. E., Professor of Vocational Education, North Carolina State College, Raleigh, N. C. 1923

1922 COOKE, MORRIS L., Consulting Engineer in Management, 1109 Finance Bldg., Philadelphia, Pa. 1910

1916 COOLEY, M. E., Professor of Mechanical Engineering and Dean of the Colleges of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1898

1916 COOPER, F. L., Instructor in Physics, Yale University, New Haven, Conn. 1912

1911 COOVER, MERVIN S., Associate Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1923

1914 COPPERSMITH, C. W., Associate Professor of Machine Design, Case School of Applied Science, Cleveland, O. 1915

1922

CORBETT, L. J., Engineering Dept., Pacific Gas and Electric Co., 445 Sutter St., San Francisco, Calif. 1912
CORBIN, C. E., Professor of Mathematics, College of the Pacific, San Jose, Calif. 1917
CORNELL, W. R., Assistant Professor of Mechanics, Cornell University, Ithaca, N. Y. 1910
CORP, C. I., Professor of Hydraulic and Sanitary Engineering, University of Wisconsin, Madison, Wis. 1910
CORRELL, J. A., Associate Professor of Electrical Engineering, University of Texas, Austin, Texas..... 1923
CORY, C. L., Dean, College of Mechanics and Professor of Electrical Engineering, University of California, Berkeley, Calif. 1915
COSTER, E. L., Literary Engineer, 25 Broad St., Room 1440, New York, N. Y. (Life Member) 1911
COULSON, J. C., Assistant Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1921
COVELL, G. A., Dean of the School of Engineering and Mechanic Arts, Oregon Agricultural College, Corvallis, Ore. 1908
COX, GEORGE C., Assistant Professor of Electrical Engineering, North Carolina State College, Raleigh, N. C. 1923
COX, J. J., Engineer-Manager for Board of County Road Commissioners, Washtenaw County, Ann Arbor, Mich. 1915
CRAIG, DUDLEY P., Instructor in Mechanical Engineering Purdue University, LaFayette, Ind. 1923
CRAIN, L. D., Professor of Mechanical Engineering, Head of Department, Colorado Agricultural College, Ft. Collins, Colo..... 1918
CRANDELL, JOHN S., Consulting Engineer, 40 Rector St., New York, N. Y. 1912
CRANE, RUFUS, 407 W. William St., Delaware, Ohio 1918
CRAWFORD, CHARLES W., Assistant Professor of Mechanical Engineering, A. & M. College of Texas, College Station, Tex. 1923
CRAWFORD, D. F., President, Westinghouse Union Battery Co., Swissvale, Pa. 1914
CRAWFORD, I. C., Dean, College of Engineering, University of Idaho, Moscow, Idaho..... 1913
CREAGER, PAUL S., Instructor in Electrical Engineering, Rutgers College, New Brunswick, N. J. 1923
CREAGMILE, WM. B., James G. Biddle, Scientific Instruments, 1211 Arch St., Philadelphia, Pa. 1909
CREAMER, WALTER J., JR., Assistant Professor of Electrical Engineering, University of Maine, Orono, Me. 1922
CREEK, HERBERT L., Professor and Head, Dept. of English, Purdue University, LaFayette, Ind. 1922

LIST OF MEMBERS.

CREIGHTON, E. E. F., Consulting Engineer, General Electric Co., Schenectady, N. Y. 1910

CREIGHTON, W. H. P., Professor of Mechanical and Sugar Engineering, Tulane University, New Orleans, La. 1893

CROCKETT, CHAS. W., Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute, Troy, N. Y. 1912

CROFOOT, GEORGE E., Assistant Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1919

CROOK, L. H., Instructor in Mechanics, Catholic University of America, Washington, D. C. 1921

CROSBY, W. A., Instructor in English, Massachusetts Institute of Technology, Cambridge, Mass. 1923

CROSBY, W. W., Consulting Engineer, State Highway Commission, Harrisburg, Pa. 1911

CROSS, HARDY, Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1912

CROSSMAN, RALPH S., Associate, General Engineering Drawing, University of Illinois, Urbana, Ill. 1919

CROTHERS, H. M., Professor of Electrical Engineering, South Dakota State College, Brookings, S. D. 1923

CROUCH, C. H., Dean of Engineering, Professor of Mechanical Engineering, University of New Hampshire, Durham, N. H. 1907

CRUM, R. W., Engineer of Materials and Tests, Iowa State Highway Commission, Ames, Ia. 1912

CULLIMORE, ALLAN R., Director, Newark Technical School, Newark, N. J. 1914

CUNNINGHAM, JOHN B., Professor of Metallurgy and Ore Dressing, Michigan College of Mines, Houghton, Mich. 1923

CURTIS, D. D., Instructor in Mechanics and Hydraulics, State University of Iowa, Iowa City, Iowa 1923

CURTIS, HARRY A., Professor of Chemical Engineering, Yale University, New Haven, Conn. 1923

CURTNER, D. L., Assistant Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1921

CUSHMAN, PAUL A., Assistant Professor of Mechanical Engineering, The Polytechnic Institute, Brooklyn, N. Y. 1922

CUTSHALL, CHESTER S., Instructor in Applied Mechanics, Purdue University, LaFayette, Ind. 1924

DAGGETT, P. H., Professor of Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1910

DAINS, FRANK BURNETT, Professor of Chemistry, University of Kansas, Lawrence, Kans. 1922

DAKE, CHARLES LAURENCE, Professor of Geology, School of Mines and Metallurgy, Rolla, Mo. 1919

DALAKER, HANS H., Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

DALBURG, F. A., Vice President and General Manager, care of Standard Oil Company of Venezuela, Apartado 85, Maracaibo, Venezuela, S. A. 1908

DALE, R. BURDETTE, Professor of Steam and Gas Engine Design, Rensselaer Polytechnic Institute, Troy, N. Y. 1921

DANA, FOREST C., Associate Professor of Engineering Problems, Iowa State College, Ames, Iowa 1923

DANA, W. J., Associate Professor of Mechanical Engineering, North Carolina State College, Raleigh, N. C. 1923

DANFORTH, R. H., Professor of Mechanics and Hydraulics in charge of Materials Testing Laboratories, Case School of Applied Science, Cleveland, O. 1914

DANIELS, JOSEPH, Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash. 1910

DARGAN, F. T., Professor of Electrical Engineering, Clemson A. & M. College of South Carolina, Clemson College, S. C. 1912

DAUGHERTY, ROBERT L., Professor of Mechanical and Hydraulic Engineering, California Institute of Technology, Pasadena, Calif. 1919

DAVEE, EVERETT W., Instructor in Mechanical Engineering, University of Maine, Orono, Me. 1922

DAVIDSON, J. BROWNLEE, Professor of Agricultural Engineering, Iowa State College, Ames, Iowa 1915

DAVIDSON, M. W., Professor of Mechanical Engineering, University of South Dakota, Vermilion, S. D. 1917

DAVIS, GEO. JACOB, JR., Dean and Professor of Civil Engineering, University of Alabama, University, Ala. 1918

DAVIS, JAS. C., Assistant Professor of Mechanical Drawing, University of Oklahoma, Norman, Okla. 1909

DAVIS, JOHN C., Citizens Bureau of Municipal Efficiency, 425 E. Water St., Milwaukee, Wis. 1908

DAVIS, R. E., Associate Professor of Civil Engineering, University of California, Berkeley, Calif. 1913

DAWES, C. L., Assistant Professor of Electrical Engineering, Harvard University, Cambridge, Mass. 1915

DAWSON, F. M., Associate Professor of Mechanics, University of Kansas, Lawrence, Kansas 1923

DAY, CHARLES, President, Day & Zimmerman, Inc., Engineers, 1600 Walnut St., Philadelphia, Pa. 1911

DEARBORN, C. S., Mechanical Engineer, Blythe, Calif. 1910

DEARBORN, R. H., Head, Dept. of Electrical Engineering, Oregon Agricultural College, Corvallis, Ore. 1917

LIST OF MEMBERS.

De Baufre, Wm. L., Professor of Mechanical Engineering and chairman of Dept., University of Nebraska, Lincoln, Nebr. 1920

Defoe, L. M., Professor of Mechanics, University of Missouri, Columbia, Mo. 1904

De La Mater, R. Griffin, Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1922

DeLay, Frederic A., Head Lecturer, Chicago Central Station Institute, Room 950, 72 W. Adams St., Chicago, Ill. 1909

Dellenbaugh, Frederick S., Jr., Assistant Professor of Electrical Machinery, Massachusetts Institute of Technology, Cambridge, Mass. 1922

Demorest, D. J., Professor of Metallurgy, The Ohio State University, Columbus, O. 1913

Dent, J. A., Associate Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1911

Denton, F. W. 1894

DePuy, C. E., Professor of Mechanical Engineering, Lewis Institute, Chicago, Ill. 1906

Derby, Frank H., Assistant Professor of Civil Engineering, Washington University, St. Louis, Mo. 1922

Derickson, Donald, Professor of Civil Engineering, Tulane University of La., New Orleans, La. 1922

Derleth, Chas., Jr., Professor of Civil Engineering and Dean of the College of Civil Engineering, University of California, Berkeley, Calif. 1904

Dibert, H. M., Secretary and Treasurer, W. & L. E. Gurley, Troy, N. Y. 1913

Dickerson, H. S., Vice President, Business Men's Clearing House, Chicago, Ill.; 1615 Ridge Ave., Evanston, Ill. 1912

Dickinson, L. P., Professor of Electrical Engineering, University of Vermont, Burlington, Vt. 1914

Diederichs, Herman, Director, Sibley School of Mechanical Engineering and Professor of Experimental Engineering, Cornell University, Ithaca, N. Y. 1915

Diefendorf, Adelbert, Instructor in Engineering Drawing, University of Illinois, Urbana, Ill. 1922

Diemer, Hugo, Director, Industrial Management Division, La Salle Extension University, Chicago, Ill. 1902

Dietrich, John J., Instructor in Practical Mechanics, Purdue University, LaFayette, Ind. 1922

Dietz, J. W., Secretary, Personnel Committee, Western Electric Co. Inc., 195 Broadway, New York, N. Y. 1911

DILLINGHAM, HARLEY C., Instructor in Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1923

DILLON, THEODORE H., Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

DIRKS, HENRY B., Professor of Mechanical Engineering, Michigan Agricultural College, East Lansing, Mich. 1920

DIX, L. E., Professor of Hydraulic and Sanitary Engineering, Norwich University, Northfield, Vt. 1917

DIX, THURMAN W., Commissioner of Highways, State of Vermont, Montpelier, Vt. 1919

DOANE, S. E., Chief Engineer, National Lamp Works, General Electric Co., New York City..... 1923

DOBBS, F. E., Instructor in Estimating and Practical Mathematics, Wentworth Institute, Boston, Mass. 1912

DODGE, H. L., Professor of Physics, University of Oklahoma, Norman, Okla. 1919

DOERINGFELD, HARRY A., Instructor in Mathematics, University of Minnesota, Minneapolis, Minn. 1923

DOGGETT, L. A., Professor of Electrical Engineering, Pennsylvania State College, State College, Pa. 1914

DOHERTY, H. L., President, Cities Service Company, 60 Wall St., New York, N. Y. 1904

DOHERTY, R. E., Designing Engineer, General Electric Company, Schenectady, N. Y. 1923

DOMONOSKE, ARTHUR B., Chief Engineer Doble Steam Motors, San Francisco, Calif. 1913

DONALD, WM, J., Managing Director, National Association of Corporation Training, 20 Vesey St., New York City. 1922

DOOLEY, C. R., Manager, Personnel and Training, Standard Oil Co. (N. J.), 26 Broadway, New York, N. Y. 1907

DOREMUS, HAL C., Instructor in Civil Engineering, A. & M. College of Texas, College Station, Tex. 1923

DORROH, J. H., Dean, School of Engineering, Professor of Civil Engineering, University of Mississippi, University, Miss. 1917

DOUGHERTY, H. R., Professor and Head of Department of Mathematics, Valley Ranch School, Valley via Cody, Wyo. 1915

DOUGHERTY, N. W., Professor of Civil Engineering, University of Tennessee, Knoxville, Tenn. 1914

DOUGLAS, J. F. H., College of Engineering, Marquette University, Milwaukee, Wis. 1910

DOWD, WYLLYS E. JR., Secretary, Power Specialty Company, 111 Broadway, New York City 1921

DOWNING, RICHARD E., Instructor in Electrical Engineering, University of Maine, Orono, Me. 1922

DRAFFIN, JASPER, O., Associate in Mechanics, University of Illinois, Urbana, Ill. 1917

DRANE, WALTER H., Chief Engineer, Smith County Highway Commissioner, Smith Co., Lebanon, Tenn. 1919

DRAYER, C. E., Secretary, American Association of Engineers, 63 East Adams St., Chicago, Ill. 1922

DRISKO, W. J., Professor of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 1923

DRUCKER, ARTHUR E., Assistant Professor of Mining Engineering, University of Illinois, Urbana, Ill. 1922

DUCEY, EDW. J., Structural Engineer, Fort Pitt Bridge Works, Canonsburg, Pa. 1915

DUCKERING, W. E., Professor of Civil Engineering; Head of Dept., University of British Columbia, Vancouver, B. C. 1917

DUDLEY, SAMUEL W., Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. .. 1921

DUFF, ALEXANDER W., Professor of Physics, Worcester Polytechnic Institute, Worcester, Mass. 1921

DUFF, C. M., Professor of Applied Mechanics, University of Nebraska, Lincoln, Nebr. 1912

DUFFEY, C. F., Professor of Electrical Engineering, University of Porto Rico, Box 143, Mayaguez, P. R. 1916

DUFOUR, F. O., Director of Civil Engineering, Lafayette College, Easton, Pa. 1906

DUKES, R. G., Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1907

DUNCAN, M. M., Vice-President and General Manager, Cleveland Cliffs Iron Co., and Member Board of Control, Michigan College of Mines, Ishpeming, Mich. 1905

DUNHAM, HEBER, Assistant Professor of Engineering Drawing, New York University, New York, N. Y. 1914

DUNKIN, WILLIAM V., Associate Professor of Mechanical Engineering, Georgia School of Technology, Atlanta, Ga. 1924

DUNKLE, RALPH W., Instructor of Engineering Drawing, The Ohio State University, Columbus, Ohio 1923

DUNLAP, J. H., Secretary, American Society of Civil Engineers, 33 West 39th St., New York City 1916

DUNN, HAROLD, The Beeler Organization Consulting Engineers, 52 Vanderbilt Ave., New York City 1917

DUPONT, T. C., Wilmington, Del. (Life Member) 1910

DuPriest, John R., Professor of Power Plant Engineering and Design, Oregon Agricultural College, Corvallis, Ore. 1919
Durand, W. F., Professor of Mechanical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1899
Durst, Ross, C., Professor of Civil Engineering, Municipal University of Akron, Akron, O. 1918
DuVall, W. Clinton, Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1919
Dwight, H. B., Electrical Engineer, Colo. P. M. Commission, Capitol Bldg., Denver, Colo. 1912
Dyche, H. E., Professor and Head of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914
Dyer, F. C., Assistant Professor of Mining Engineering, Faculty of Applied Science, University of Toronto, Toronto, Ont., Canada 1913
Dysart, P. M., Physics Dept., Schenley High School, Pittsburgh, Pa. 1911
Earle, Chester R., Instructor in English, Michigan College of Mines, Houghton, Mich. 1922
Earle, S. B., Director of the Engineering Department, and Professor of Mechanical Engineering, Clemson Agricultural College of South Carolina, Clemson College, S. C. 1912
Ebaugh, W. C., Professor of Chemistry, Denison University, Granville, Ohio 1908
Eckel, C. L., Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1914
Eckhard, G. F., Professor of Structural Engineering, University of Vermont, Burlington, Vt. 1910
Eddy, C. L., Associate Professor of Railway Engineering, Case School of Applied Science, Cleveland, O. 1910
Edgar, R. F., Instructor in Graphics, University of Pittsburgh, Pittsburgh, Pa. 1920
Edgecomb, R. E., Chief Engineer City Bldg. Dept., Omaha, Neb. .. 1912
Edison, Oskar E., Assistant Professor of Electrical Engineering, University of Nebraska, Lincoln, Nebr. 1922
Edmands, S. S., Director, School of Science and Technology, Pratt Institute, Brooklyn, N. Y. 1903
Edwards, C. W., Professor of Physics, Trinity College, Durham, N. C. 1923
Edwards, James H., Assistant Chief Engineer, American Bridge Co., 71 Broadway, New York City 1922
Eggers, Henry C. T., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1922

EKSTRAND, K. H., Instructor in Mechanical Engineering, State University of Iowa, Iowa City, Iowa..... 1923

ELDRED, C. P., John A. Manning Paper Co. & Manning Abrasine Co., 1991 15th St., Troy, N. Y. 1918

ELL, CARL S., Dean, School of Engineering, Northeastern University, Boston, Mass. 1917

ELLIOTT, BEN. G., Professor of Mechanical Engineering, University of Wisconsin, Madison, Wis. 1912

ELLIOTT, D. S., Professor of Physics, Tulane University, New Orleans, La. 1919

ELLIOTT, ROY W., Supt. of Buildings and Grounds, Purchasing Agent, Board of Education, Topeka, Kans. 1921

ELLIS, FREDERICK, 11428 96th St., Edmonton, Alberta, Canada .. 1912

ELLIS, H. M., Head, Department of English, University of Maine, Orono, Me. 1923

ELLIS, W. T., Professor of Power Engineering and Machine Design, Virginia Polytechnic Institute, Blacksburg, Va. 1910

ELY, JOHN A., Professor of Engineering, Dean, College of Arts and Science, St. Johns University, Shanghai, China 1914

ELY, SUMNER B., Assistant Professor, Dept. of Commercial Engineering, Carnegie Institute of Technology, Pittsburgh, Pa.... 1921

EMERSON, WALTER D., Assistant Professor of Mechanical Engineering, University of Maine, Orono, Me. 1920

EMERSON, WM. H., Dean and Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. 1912

EMMONS, WALTER J., Professor of Highway Engineering, A. & M. College of Texas, Austin, Tex. 1923

EMRICK, PAUL S., Electrical Engineer, LaFayette, Ind. 1914

EMSWILER, J. E., Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1919

ENDSLEY, L. E., Professor of Railway Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1907

ENGEL, GODFREY, Consulting Engineer, Specialty Sugar Mfg. Plants, 17 Battery Place, New York, N. Y. 1915

ENGER, M. L., Professor of Mechanics and Hydraulics, University of Illinois, Urbana, Ill. 1907

ENGLEHART, RUSSELL J., Assistant Supt., Forge Laboratory, University of Illinois, Urbana, Ill. 1922

ENO, F. H., Professor of Municipal Engineering, The Ohio State University, Columbus, O. 1907

ENSIGN, N. E., Assistant Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1915

ERIKSEN, EDWARD L., Associate Professor of Structural Engineering, Purdue University, LaFayette, Ind. 1921

ESHLEMAN, S. KENDRICK, JR., Engineering College, University of Florida, Gainesville, Fla. 1923
ESTEP, THOS. G., Associate Professor of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1922
ESTY, WILLIAM, Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1898
EVANS, F. H., Director of Course Development, Rochester Mechanics Institute, Rochester, N. Y. 1907
EVANS, H. B., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. 1908
EVANS, H. S., Dean, College of Engineering, Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1905
EVANS, WESTON S., Instructor in Civil Engineering, University of Maine, Orono, Me. 1922
EVERETT, H. A., Professor of Thermodynamics, Pennsylvania State College, State College, Pa. 1924
EWING, D. D., Professor of Electrical Railway Engineering, Purdue University, LaFayette, Ind. 1910
EYRE, JAMES R., Instructor, Iowa State University, Iowa City, Ia. 1921
EYRE, T. T., Dean, School of Engineering, University of New Mexico, Albuquerque, N. Mex. 1909
FAIG, J. T., President, Ohio Mechanics Institute, Cincinnati, O. 1899
FAIRFIELD, JOHN G., Assistant Professor of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1922
FAIRMAN, SEIBERT, Instructor in Applied Mechanics, Purdue University, LaFayette, Ind. 1921
FARNHAM, C. S., Associate Professor of Civil Engineering, Yale University, New Haven, Conn. 1908
FARNHAM, GEORGE W., with McGraw-Hill Book Co., 370 Seventh Avenue, New York City 1924
FARNHAM, WALTER E., Assistant Professor of Graphics, Tufts College, Tufts College, Mass. 1919
FELGAR, J. H., Dean of the College of Engineering, University of Oklahoma, Norman, Okla. 1912
FELKER, EVERETT J., Instructor in Civil Engineering, University of Maine, Orono, Me. 1922
FERGUSON, O. J., Professor of Electrical Engineering, and Dean, College of Engineering, University of Nebraska, Lincoln, Nebr. 1908
FERMIER, E. J., Professor of Mechanical Engineering, Texas A. and M. College, Director, Texas Engineering Experiment Station, College Station, Texas 1903
FERNALD, R. H., Director, Department of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1899

FERRIS, CHARLES E., Professor of Mechanical Engineering and Dean of Engineering, University of Tennessee, Knoxville, Tenn. 1913

FESSENDEN, E. A., Professor and Head of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1912

FETTKE, CHAS. R., Associate Professor of Geology and Mineralogy, Carnegie Institute of Technology, Pittsburgh, Pa. 1924

FIELD, F., Professor of Mathematics, Dean of Men, Georgia School of Technology, Atlanta, Ga. 1919

FIELD, PETER, Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1921

FIELD, WOOSTER B., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1923

FINCH, F. R., Assistant Professor of Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1913

FINE, H. B., Professor of Mathematics and Dean of the Departments of Science, Princeton University, Princeton, N. J. 1909

FISH, F. A., Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1905

FISH, J. C. L., Professor of Railroad Engineering, Leland Stanford Junior University, Stanford University, Calif. 1919

FISHBURN, CYRUS C., Instructor in Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1923

FISHER, HENRY T., Dean, School of Engineering, Valparaiso University, Valparaiso, Ind. 1923

FISHER, JAMES, Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. 1899

FISK, IRA W., West Virginia University, Morgantown, W. Va. 1914

FITCH, ALBERT L., Professor of Physics, University of Maine, Orono, Me. 1922

FITTERER, J. C., Professor of Civil and Irrigation Engineering, and Acting Dean, College of Engineering, University of Wyoming, Laramie, Wyo. 1912

FITTZ, RAYMOND U., Assistant Professor of Mechanical Engineering, Tufts College, Tufts College, Mass. 1922

FLATHER, J. J., Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1898

FLEMING, ARTHUR P. M., Manager, Research and Education Dept., Metropolitan-Vickers Electrical Co., Manchester, England 1922

FLEMING, ROBINS, Designing Engineer, American Bridge Co., 30 Church St., New York City 1921

FLEMING, V. R., Assistant Professor of Applied Mechanics, University of Illinois, Urbana, Ill. 1909

FLETCHER, A. B., 2230 California Street, Washington, D. C. 1913

FLORES, BALBINO R., Instructor in Romance Languages, Rensselaer Polytechnic Institute, Troy, N. Y. 1922
FLOWERS, A. E., Consulting Engineer, The DeLaval Separator Co., Poughkeepsie, N. Y. 1910
FOCKE, T. M., Dean of Faculty, Kerr Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1907
FOGG, R. J., Professor and Head, Civil Engineering Dept., Lehigh University, Bethlehem, Pa. 1910
FOLK, J. THOMAS, Instructor in Mechanical Engineering Department, Louisiana Industrial Institute, Ruston, La. 1914
FOLK, S. B., Instructor in Mechanics and Hydraulics, Case School of Applied Science, Cleveland, O. 1921
FOLWELL, A. P., Managing Editor, *Public Works*, and Consulting Engineer, Montclair, N. J. 1916
FOLTZ, LEROY S., Associate Professor of Electrical Engineering, Michigan Agricultural College, East Lansing, Mich. 1918
FOOTE, F. S., Professor of Railroad Engineering, University of California, Berkeley, Calif. 1910
FORAKER, F. A., Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. 1914
FORD, ARTHUR H., Professor of Electrical Engineering, State University of Iowa, Iowa City, Ia. 1903
FORD, H. C., Associate Professor of Civil Engineering, Iowa State College, Ames, Ia. 1907
FORMAN, A. H., Professor of Electrical Engineering, West Virginia University, Morgantown, W. Va. 1916
FOSS, F. E., Professor of Civil Engineering, Cooper Union, New York, N. Y. 1893
FOSS, MARTIN M., Vice President, McGraw-Hill Book Co., Inc., 370 7th Ave., New York, N. Y. 1909
FOSTER, E. S., Assistant Chief Engineer The Packard Electric Co., Warren, Ohio 1911
FOSTER, JOHN M., Assistant Professor of Machine Design and Applied Mechanics, North Carolina State College of A. & E., College Station, N. C. 1919
FOSTER, W. L., Associate Professor of Civil Engineering, Iowa State College, Ames, Iowa 1923
FOULK, C. W., Professor of Analytical Chemistry, The Ohio State University, Columbus, O. 1913
FOURAKER, LEROY L., Assistant Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1924
FOX, EARLE B., Professor of Materials and Metallurgy, Post Graduate Dept., U. S. Naval Academy, Annapolis, Md. 1920

Fox, Frederick H., Assistant Professor of Civil Engineering, Tulane University of Louisiana, New Orleans, La. 1922

Frampton, George O., Director, Dept. of Industrial Service, Toledo University, Toledo, O. 1921

Frank, E. D. A., 1015 Shepard Avenue, Milwaukee, Wiss. 1917

Franklin, William S., Professor of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 1900

Frary, Rodney W., Louisiana State Normal, Natchitoches, La.. 1923

Frazer, John, Dean of the Towne Scientific School and Professor of Chemistry, University of Pennsylvania, Philadelphia, Pa... 1914

Frazier, F. F., Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1912

Freeman, E. H., Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1909

Freeman, W. Edwin, Assistant Dean, College of Engineering, Head, Department of Electrical Engineering, University of Kentucky, Lexington, Ky. 1911

French, A. W., Professor of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1900

French, Robert W., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. .. 1920

French, Thos. E., Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1899

French, Owen B., Professor of Surveying, George Washington University, Washington, D. C. 1923

Frey, George J., Head, Department of Mechanical Drawing and Machine Design, Ohio Mechanics Institute, Cincinnati, Ohio 1919

Frost, Harwood, President, Brown Portable Conveying Machinery Co., Room 624, 10 S. LaSalle St., Chicago, Ill. 1907

Fry, H. P., Assistant Professor of Mechanical Drawing, Mechanical Engineering Department, University of Pennsylvania, Philadelphia, Pa. 1914

Fullan, M. T., Professor of Machine Design and Drawing, Alabama Polytechnic Institute, Auburn, Ala. 1915

Fuller, A. H., Professor and Head of Civil Engineering, The Iowa State College, Ames, Ia. 1901

Fuller, C. E., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass. 1907

Fulton, Charles H., Director, Missouri School of Mines and Metallurgy, University of Missouri, Rolla, Mo. 1923

Furia, John J., Lecturer at Manhattan College, 1222 Tinton Avenue, New York, N. Y. 1919

Furman, Franklin DeR., Professor of Machine Design, Dean for Junior Class, Stevens Institute of Technology, Hoboken, N. J.. 1907

FURR, M. W., Associate Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1917

FUSSELL, LEWIS, Professor of Electrical Engineering, Chairman, Divison of Engineering, Swarthmore College, Swarthmore, Pa. 1921

GARMAN, H. O., Consulting Engineer, 2062 N. Meridian St., Indianapolis, Ind. 1907

GARRETT, L. E., Associate Professor of Mathematics, University of Missouri, School of Mines and Metallurgy, Rolla, Mo. 1910

GARRETT, SEYMOUR S., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1922

GARST, HARVEY O., Professor of Civil Engineering, New Mexico College of A. & M. Arts, State College, N. M. 1922

GAUVREAU, VICTOR, Instructor in Gas Engine and Machine Design, University of Minnesota, Minneapolis, Minn. 1922

GAY, R. W., 1928 Vinton Ave., Memphis, Tenn. 1907

GEE, GEORGE B., Assistant Professor of Drawing, Northeastern University, Boston, Mass. 1919

GEIGER, JOHN W., Instructor in Mechanical Engineering, Purdue University, LaFayette, Ind. 1923

GENZ, HENRY E., Associate Professor of Mechanics, Georgia School of Technology, Atlanta, Ga. 1924

GEORGE, S. G., Professor of Mechanics of Engineering, School of Civil Engineering, College of Engineering, Cornell University, Ithaca, N. Y. 1914

GETCHELL, E. L., Assistant Professor of Mechanical Engineering, New Hampshire College, Durham, N. H. 1921

GIBSON, J. L., Dean of School of Arts and Sciences, Professor of Mathematics, University of Utah, Salt Lake City, Utah 1911

GIESECKE, F. E., Professor of Architectural Engineering, University of Texas, Austin, Tex. 1893

GILBRETH, F. B., 68 Eagle Rockway, Montclair, N. J. 1911

GILCHRIST, J. F., Vice President, Commonwealth Edison Co., Chicago, Ill. 1911

GILKEY, HERBERT J., Assistant Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1922

GILL, GRAYSON, Associate Professor of Architecture, A. & M. College of Texas, College Station, Tex. 1923

GILLESPIE, PETER, Professor of Civil Engineering, University of Toronto, Toronto, Ontario 1905

GILLETTE, H. P., Editor in Chief, *Engineering & Contracting*, 221 East 20th St., Chicago, Ill. 1905

GILMORE, DAVID P., Associate Professor of Structural Engineering, The State University of Iowa, Iowa City, Ia. 1919

GILMORE, L. H., Professor of Physics, California Institute of Technology, Pasadena, Calif. 1912

GILMOUR, WALTER A., Instructor in Civil Engineering, Akron Municipal University, Akron, O. 1922

GLADSON, W. N., Vice President, Dean, College of Engineering, University of Arkansas, Fayetteville, Ark. 1903

GODFREY, HOLLIS, President, The Engineering Economics Foundation, 3 Joy St., Boston, Mass. 1913

GOLDINGHAM, A. H., Sales Engineer, De la Vergne Machine Co., Wayside, Warlingham, Surrey, England..... 1911

GOLDSMITH, ADOLPH, Instructor, Massachusetts Institute of Technology, Cambridge, Mass. 1922

GOODALE, S. L., Professor of Metallurgy, University of Pittsburgh, Pittsburgh, Pa. 1924

GOODENOUGH, G. A., Professor of Thermodynamics, University of Illinois, Urbana, Ill. 1900

GOSS, W. F. M., President, Railway Car Manufacturers' Association, 61 Broadway, New York, N. Y. 1893

GOTTSBERGER, B. BRITTON, Professor of Mining, Yale University, New Haven, Conn. 1923

GOUGH, ACHILLES C., Dean, School of Engineering and Trades, Idaho Technical Institute, Pocatella, Ida. 1922

GOULD, FLETCHER A., 508 Grove St., East Lansing, Mich. 1916

GOULDING, HERBERT J., Associate Professor of Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1914

GRACEY, FRANK M., Instructor in Engineering Drawing, Yale University, New Haven, Conn. 1923

GRAHAM, WM. P., Vice Chancellor, Syracuse University, Syracuse, N. Y. 1912

GRAM, L. M., Professor of Structural Engineering, University of Michigan. Ann Arbor, Mich. 1913

GRANDLIENARD, EDWARD T., Assistant Professor of Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1919

GRAY, JOHN C., Assistant Professor, Dept. of Electrical Engineering and Physics, U. S. Naval Academy, Annapolis, Md. 1920

GREENE, ARTHUR M., JR., Dean, School of Engineering, Professor of Mechanical Engineering, Princeton University, Princeton, N. J. 1903

GREENOUGH, MAURICE B., Vice-President, Southern Clay Mfg. Co., 801 Volunteer Bldg., Chattanooga, Tenn. 1912

GREGORY, W. B., Professor of Experimental Engineering, Tulane University; Irrigation Engineer, U. S. Department of Agriculture, New Orleans, La. 1907

GREINER, J. E., Consulting Engineer, Fidelity Bldg., Baltimore, Md. 1911
GREINER, OTTO A., Associate Professor of Modern Languages, Purdue University, La Fayette, Ind. 1922
GREVE, F. W., JR., Associate Professor of Hydraulic Engineering, Purdue University, LaFayette, Ind. 1912
GRIDER, RICHARD L., Associate Professor of Mining, University of Kansas, Lawrence, Kans. 1922
GRIFFIN, FRED S., Assistant Professor of Mechanical Engineering, Municipal University of Akron, Akron, O. 1922
GRISWOLD, ROBT. G., Chief Technologist, H. L. Doherty & Company, 60 Wall St., New York, N. Y. 1917
GROAT, B. F., 874 Wynnewood Road, Philadelphia, Pa. 1899
GROSS, CHAS. F., Assistant Professor of Marine Engineering and Naval Architecture, University of California, Berkeley, Calif. 1924
GROSS, PAUL M., Professor of Chemistry, Trinity College, Durham, N. C. 1923
GROVER, ARCHER L., Professor of Engineering Drawing, University of Maine, Orono, Me. 1922
GROVER, N. C., Chief Hydraulic Engineer, United States Geological Survey, Washington, D. C. 1894
GRUMBEIN, J. B., Professor of Steam and Experimental Engineering, West Virginia University, Morgantown, W. Va. 1912
GRUNDHOEFFER, E. F., The Pennsylvania State College, State College, Pa. 1915
GULICK, LEE N., Assistant Professor of Mechanical Constructive Practice, University of Pennsylvania, Philadelphia, Pa. 1923
GUMMERE, H. V., Breezy Knoll Farm, Glen Mills, Delaware Co., Pa. 1914
HAIGLER, CHAS. E., In charge of Co-Ordination Dept., Franklin Union, Division of Rehabilitation, Boston, Mass. 1912
HALE, CHARLES, Associate Professor of English, Rutgers College, New Brunswick, N. J. 1923
HALE, R. S., Supt., Special Research Dept. Edison Illuminating Company of Boston, Boston, Mass. 1916
HALL, ARTHUR A., City Manager, Morgantown, W. Va. 1918
HALL, BURRILL R., Supt. of Pattern Laboratory, University of Illinois, Urbana, Ill. 1920
HALL, JAMES A., Associate Professor of Mechanical Engineering, Brown University, Providence, R. I. 1914
HALL, W. H., Professor of Engineering, Trinity College, Durham, N. C. 1917
HALLOCK, J. W., Professor and Head of Industrial Engineering, Director, Co-Operative Work, University of Pittsburgh, Pittsburgh, Pa. 1915

HALSEY, W. D., Hartford Steam Boiler & Insurance Co., Hartford, Conn. 1917

HAM, WM. R., Professor of Physics, Pennsylvania State College, State College, Pa. 1914

HAMERSCHLAG, A. A., President, Research Corporation of New York and of the Henderson Corporation of Pittsburgh, 511 Wood St., Pittsburgh, Pa. 1903

HAMILTON, EDW. P., Secretary, John Wiley & Sons., Inc., 432 Fourth Ave., New York, N. Y. 1914

HAMILTON, GEO. A., 532 Morris Ave., Elizabeth, N. J. 1911

HAMILTON, J. McC., President, Montana State College of A. & M. Arts, Bozeman, Mont. 1912

HAMILTON, J. O., Professor of Physics, Kansas State Agricultural College, Manhattan, Kans. 1910

HAMMOND, H. P., Professor of Sanitary and Hydraulic Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1916

HANCOCK, CHARLES, Professor of Mechanical Engineering, University of Virginia, University, Va. 1915

HANEY, J. W., Associate Professor of Mechanical Engineering, University of Nebraska, Lincoln, Nebr. 1916

HANNA, U. S., Professor of Mathematics, Indiana University, Bloomington, Ind. 1915

HARBARGER, SADA A., Instructor in English, The Ohio State University, Columbus, Ohio 1918

HARDING, C. F., Professor of Electrical Engineering and Director of the Electrical Laboratories, Purdue University, LaFayette, Ind. 1908

HARLAN, ORLAN K., Assistant Professor of Mechanical Engineering, The Pennsylvania State College, State College, Pa. 1921

HARPER, A. C., Pratt Institute, Brooklyn, N. Y. 1911

HARRIS, C. L., Associate Professor of Architectural Engineering, The Pennsylvania State College, State College, Pa. 1914

HARRIS, HARRY E., Consulting Engineer, Manufacturer and Designer of Special Machinery, Harris Engineering Co., and Hubbard, Harris and Howell, Inc., 229 Thorme St., Bridgeport, Conn. 1924

HARRIS, WALTER B., Professor of Geodesy, Princeton, University, Princeton, N. J. 1914

HARRISON, T. P., Head, Dept. of English, North Carolina State College, Raleigh, N. C. 1923

HART, S. T., Professor of Industrial Engineering, Syracuse University, Syracuse, N. Y. 1923

HART, THOMAS R., Instructor in Ways, Preparation, and Weaving, North Carolina State College, Raleigh, N. C. 1924

HARTER, G. A., Professor of Mathematics and Physics, University of Deleware, Newark, Del. 1905

HARTIG, HENRY E., Instructor in Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

HARTMANN, F. M., Dean of Day School, Professor of Electrical and Mechanical Engineering, Cooper Union, New York, N. Y. 1908

HARTSHORNE, W. B., Service Engineer, Public Service Electric Co., Newark, N. J. 1924

HASKELL, M. W., Professor of Mathematics, University of California, Berkeley, Cal. 1910

HATCH, DAVID A., Assistant Professor of Mathematics, Lafayette College, Easton, Pa. 1908

HATLEY, CHARLES C., Assistant Professor of Physics, Trinity College, Durham, N. C. 1923

HATT, W. K., Professor of Civil Engineering and Director of the Materials Testing Laboratory, Purdue University, LaFayette, Ind. 1895

HAULTAIN, H. E. T., Professor of Mining Engineering, University of Toronto, Toronto, Ont., Canada 1911

HAUSMANN, ADELBERT A., Instructor in Descriptive Geometry and Drawing, Case of School of Applied Science, Cleveland, O. 1923

HAWES, J. H., Junior Master, Dorchester High School, 74 Bernard St., Dorchester Center, 24, Mass. 1900

HAY, EARL D., Dean, College of Engineering, Des Moines University, Des Moines, Iowa 1915

HAYES, L. D., Professor of Machine Design and Construction, West Virginia, Morgantown, W. V. 1922

HAYFORD, J. F., Director of the College of Engineering, Northwestern University, Evanston, Ill. 1905

HAYWARD, H. W., Professor of Materials of Engineering, Massachusetts Institute of Technology, Cambridge,Mass..... 1904

HAZARD, CLIFTON T., Assistant Professor of Mathematics, Purdue University, LaFayette, Ind. 1923

HAZELTINE, L. A., Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1910

HECK, CHARLES M., Head, Dept. of Physics, North Carolina State College, Raleigh, N. C. 1923

HECK, NICHOLAS H., Hydrographic and Geodetic Engineer, Coast and Geodetic Survey, Washington, D. C. 1923

HECK, ROBERT C. H., Professor of Mechanical Engineering, Rutgers College, New Brunswick, N. J. 1907

HEDRICK, E. R., Professor of Mathematics, University of Missouri, Columbia, Mo. 1910

HEDRICK, I. G., County Court House, Portland, Ore. 1903

HEDRICK, WM. A., Head of the Department of Physics of the High and Manual Training Schools, Central High School, Washington, D. C. 1918

HEFFNER, ROY E., Assistant Professor of Electrical Engineering, John B. Stetson University, DeLand, Fla. 1923

HEISIG, G. B., Instructor in General Chemistry, University of Minnesota, Minneapolis, Minn. 1924

HEILMAN, HERBERT W., Head, Civil Engineering Dept., Newark Technical School, Newark, N. J. 1922

HELMAN, M. P., 733 Pa. Avenue, Irwin, Pa. 1914

HENDERSON, W. E., Dean, College of Arts, Philosophy and Science, The Ohio State University, Columbus, Ohio. 1919

HENDRICK, T. K., Instructor in Engineering Mechanics, Yale University, New Haven, Conn. 1921

HENDRICKSON, N. E., Chief Engineer, Mater Spring Co., (2214 Lawrence Ave.) Toledo, Ohio 1923

HENLINE, HENRY H., Assistant Professor of Electrical Engineering, Stanford University, Stanford University, Calif. 1919

HERRICK, CARL A., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

HERTY, C. H., President, Synthetic Organic Chemical Mfrs. Assoc. 1 Madison Ave., New York, N. Y. 1912

HEWERDINE, T. S., Consulting Civil and Hydraulic Engineer, Olivia, Minn. 1907

HEWITT, C. E., Lock Box 183, Pa. Ave. Station, Washington, D. C. 1915

HEWLETT, VAN WYCH, JR., Woodmere, L. I., N. Y. 1920

HIBBARD, H. WADE, Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1896

HICKERSON, T. F., Professor of Civil Engineering, University of North Carolina, Chapel Hill, N. C. 1914

HIGBEE, F. G., Professor and Head of the Department of Descriptive Geometry and Drawing, State University of Iowa, Iowa City, Ia. 1906

HIGBIE, H. H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1908

HILL, A. S., Associate Professor of Electrical Engineering, University of Maine, Orono, Me. 1919

HILL, CLIFTON R., Gazette Building, Reno, Nev. 1918

HILL, J. E., Professor of Civil Engineering, Brown University, Providence, R. I. 1894

HILL, LESTER S., 625 Orange St., New Haven, Conn. 1922

HILL, WM. W., Professor of Electrical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1912

HILLEBRAND, W. A., 345 Kellogg Ave., Palo Alto, Calif. 1910

HILLEGASS, H. H., Engineering Dept., Bell Telephone Co. of Penna., Philadelphia, Pa. 1916
HITCHCOCK, E. A., Dean of Engineering College, The Ohio State University, Columbus, O. 1921
HITCHCOCK, F. A., 5205 Wisconsin Ave., Chevy Chase, Md. 1913
HITCHCOCK, GEO. G., Professor of Physics, Pomona College, Claremont, Calif. 1911
HITCHCOCK, LEON W., Professor of Electrical Engineering, New Hampshire College, Durham, N. H. 1922
HITCHCOCK, W. A., Architect, University of Wyoming, Laramie, Wyo. 1915
HIXON, C. R., Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1910
HOAD, W. C., Professor of Sanitary and Municipal Engineering, University of Michigan, Ann Arbor, Mich. 1907
HOBBS, ALLAN W., Associate Professor of Applied Mathematics, University of North Caroline, Chapel Hill, N. C. 1910
HOCKEMA, FRANK C., Instructor, Purdue University, LaFayette, Ind. 1921
HODGKINS, H. L., Dean and Professor of Mathematics, George Washington University, Washington, D. C. 1908
HOEFER, E. G., Associate Professor of Mechanical Engineering, University of North Carolina, Chapel Hill, N. C. 1910
HOELSCHER, RANDOLPH P., Assistant Professor of General Engineering Drawing, University of Illinois, Urbana, Ill. 1912
HOERNING, CARLOS, Professor of Mechanical Engineering, Universidad de Chile, Santiago, Chile 1912
HOEXTER, S. J., University of Detroit, Detroit, Mich. 1914
HOFMANN, G. A., Professor of Mechanical Engineering, University of Dayton, Dayton, O. 1916
HOFMAN, H. O., Professor of Metallurgy, Massachusetts Institute of Technology, Cambridge, Mass. 1894
HOFFMAN, A. H., Research Specialist in Agricultural Engineering, University Farm, Davis, Calif. 1907
HOFFMAN, J. D., Head, Dept. of Practical Mechanics; Professor of Practical Mechanics; Director, Laboratories of Practical Mechanics, Purdue University, LaFayette, Ind. 1907
HOLDEN, C. A., Director, Thayer School of Civil Engineering, Dartmouth College. Hanover, N. H. 1901
HOLDER, F. J., Professor of Mathematics, Mercer University, Macon, Ga. 1912
HOLLIS, I. N., President, Worcester Polytechnic Institute, Worcester, Mass. 1894

HOLLISTER, S. C., Light, Hollister & Ferguson, Inc., Civil and Industrial Engineers, 1200 Land Title Bldg., Philadelphia, Pa... 1916
HOLMAN, W. F., Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1912
HOLMBERG, CARL H., Instructor in Civil Engineering, Tufts College, Tufts College, Mass..... 1924
HOLMES, FRED E., Assistant Professor of Mechanics and Hydraulics, The State University of Iowa, Iowa City, Ia. 1919
HOLT, A. H., Associate Professor of Civil Engineering, State University of Iowa, Iowa City, Iowa..... 1923
HOOD, GEO. J., Professor of Engineering Drawing, University of Kansas, Lawrence, Kans. 1914
HOOD, O. P., 1831 Irving St., N. W., Washington, D. C. 1893
HOOK, IRA T., Test Engineer, American Brass Co., 494 Norton St., New Haven, Conn. 1922
HOOPER, E. G., Assistant Professor of Civil Engineering, New York University, New York, N. Y. 1909
HOOVER, THEODORE J., Professor of Mining and Metallurgy, Stanford University, Stanford University, Calif. 1919
HOPKINS, L. A., Secretary, Colleges of Architecture and Engineering, Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1923
HOSKINS, L. M., Professor of Applied Mathematics, 1240 Waverly St., Palo Alto, Calif. 1893
HOSMER, GEO. L., Associate Professor of Geodesy, Massachusetts Institute of Technology, Cambridge, Mass. 1914
HOUGHTON, C. E., Professor of Mechanics, New York University, New York, N. Y. 1908
HOUSE, E. B., Professor of Civil and Irrigation Engineering, Colorado State Agricultural College, Ft. Collins, Colo. 1913
HOUSEHOLDER, FRED F., Professor of Physics, Municipal University of Akron, Akron, O. 1922
HOUSTON, HALE, Box 422, Lexington, Va. 1914
HOWARD, J. W., Associate Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1907
HOWARD, PAUL F., 144 Circuit Rd., Winthrop, Mass. 1923
HOWE, C. D., Partner, C. D. Howe & Co., Consulting Engineers, Port Arthur, Ontario, Canada 1912
HOWE, C. S., President of the Case School of Applied Science, Cleveland, O. 1902
HOWE, LEON B., Professor of Drawing, College of Applied Science, Syracuse University, Syracuse, N. Y. 1917
HOWELL, ALMONTE C., Instructor in English, University of North Carolina, Chapel Hill, N. C. 1922

HOWELL, R. S., Associate Professor of Experimental Engineering, Georgia School of Technology, Atlanta, Ga. 1919
HOWER, H. S., Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1914
HOXTON, L. G., Professor of Physics, University of Virginia, University, Va. 1915
HUGHES, H. J., Dean of the Engineering School, Professor of Civil Engineering, Harvard University, Cambridge, Mass 1907
HUGHES, MARTIN C., Associate Professor, Texas A. & M. College, College Station, Tex. 1924
HUME, ALFRED, Vice-Chancellor, Professor of Mathematics, University of Mississippi, University, Miss. 1894
HUMPHREY, H. K., Assistant Professor of Electrical Engineering, Rice Institute, Houston, Tex. 1918
HUMPHREYS, A. C., President, Stevens Institute of Technology, Hoboken, N. J. 1908
HUMPHREY, CARL T., Dean, School of Technology, Professor of Civil Engineering, Villanova College, Villanova, Pa. 1921
HUNT, GUY H., Assistant Professor of Applied Mathematics, University of California, Southern Branch, Los Angeles, Calif. 1923
HUNTER, J. A., Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1904
HUNTINGTON, E. V., Professor of Mechanics, Harvard University, Cambridge, Mass. 1906
HUNTINGTON, W. C., Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1914
HUSTEDT, HERMAN F., Instructor in Mechanic Arts, Tulane University, New Orleans, La. 1922
HUTCHINSON, CHARLES A., Associate Professor and Acting Head, Dept. of Mathematics, University of Colorado, Boulder, Colo. 1923
HYDE, A. L., Associate Professor of Bridge Engineering, University of Missouri, Columbia, Mo. 1904
HYDE, E. P., Director of Research, National Lamp Works of General Electric Co., Nela Park, Cleveland, O. 1911
INGALLS, J. W., Assistant Professor of Civil Engineering, Northeastern University, Boston, Mass. 1923
INGRAM, E. L., Professor of Railroad Engineering and Geodesy, University of Pennsylvania, Philadelphia, Pa. 1908
IVES, F. W., Professor of Agricultural Engineering, The Ohio State University, Columbus, O. 1910
IVES, H. C., Professor of Railroad Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1901
JABLOW, CHARLES, Westinghouse E. & M. Co., 137 Avenue A, Westinghouse Plan, East Pittsburgh, Pa. 1910

JACKSON, DUGALD C., Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1893

JACKSON, DUGALD C. JR., Assistant Professor of Electrical Engineering, Trinity College, Durham, N. C. 1922

JACOBUS, D. S., Advisory Engineer, The Babcock & Wilcox Co., 85 Liberty St., New York, N. Y. 1893

JACOBY, H. S., Professor of Bridge Engineering, Emeritus, Cornell University, 650 Highland Ave., Bethlehem, Pa. 1894

JAMES, J. H., Professor of Chemistry, Carnegie Institute of Technology, Pittsburgh, Pa. 1910

JAMES, W. G., Trans. Eng. Dept., Westinghouse E. & M. Co., East Pittsburgh, Pa. 1917

JAMESON, J. M., Vice President, Girard College, Philadelphia, Pa.. 1903

JANDA, H. F., Associate Professor of Highway Engineering, University of North Carolina, Chapel Hill, N. C. 1924

JASPER, T. McL., Special Research Assistant Professor of Engineering Materials, University of Illinois, Urbana, Ill. 1920

JENKIN, ANTHONY, Associate Professor of Mining Engineering, Case School of Applied Science, Cleveland, O. 1921

JENKINS, A. LEWIS, Professor of Mechanical Engineering, University of Cincinnati, Cincinnati, O. 1907

JENKINS, D. R., Professor of Electrical Engineering, University of North Dakota, University Station, Grand Forks, N. D. 1912

JEWELL, A. H., Associate Professor of Sanitary Engineering, University of Kansas, Lawrence, Kans. 1923

JEWETT, F. B., Vice President, Western Electric Co., Inc., 195 Broadway, New York, N. Y. 1914

JOHN, WALTON C., Specialist in Rural and Technical Education, Bureau of Education, Department of the Interior, Washington, D. C. 1923

JOHNDROE, S. G., Instructor in Mathematics, Wentworth Institute, Boston, Mass. 1921

JOHNSON, ARTHUR F., Assistant Professor of Mechanical Engineering, George Washington University, Washington, D. C. 1924

JOHNSON, A. R., Associate Professor of Civil Engineering and Graphics, Rutgers College, New Brunswick, N. J. 1909

JOHNSON, C. A., Larimer, Pa. 1915

JOHNSON, E. A., Head of the Foundry Dept., Wentworth Institute, Boston, Mass. 1913

JOHNSON, ELMER D., Instructor in Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1923

JOHNSON, F. ELLIS, Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1916

JOHNSON, J. S. A., Professor of Applied Mechanics and Experimental Engineering, Virginia Polytechnic Institute, Blacksburg, Va. 1921

JOHNSON, L. J., Professor of Civil Engineering, Harvard University, Cambridge, Mass. 1898

JOHNSON, PHELPS, Care of Dominion Bridge Co., Montreal, Canada. 1910

JOHNSTON, C. T., Professor of Geodesy and Surveying, University of Michigan, Ann Arbor, Mich. 1913

JOHNSTON, W. A., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass. 1907

JONES, C. R., Dean of the College of Engineering and Professor of Power Engineering, West Virginia University, Morgantown, W. Va. 1895

JONES, DAVID C., Associate Professor of Mathematics, A. & M. College of Texas, College Station, Tex. 1923

JONES, E. C., Assistant Professor of Shop Practice, Kansas State Agricultural College, Manhattan, Kans. 1917

JONES, J. C., Professor of Geology, University of Nevada, Reno, Nev. 1923

JONES, F. E., Assistant Professor of Mechanic Arts, University of Kansas, Lawrence, Kans. 1915

JONES, F. R., 111 Broadway, N. Y. 1893

JONES, J. O., Assistant Professor of Hydraulics, University of Minnesota, Minneapolis, Minn. 1916

JONES, LAUDER W., Professor of Chemistry, Princeton University, Princeton, N. J. 1920

JONES, LEONARD R., Instructor, Massachusetts Institute of Technology, Cambridge Mass. 1922

JONES, SAMUEL M., Research Assistant, Massachusetts Institute of Technology, Cambridge, Mass. 1922

JORDAN, HERBERT E., Assistant Professor of Mathematics, University of Kansas, Lawrence, Kans. 1924

JORDAN, H. H., Professor of General Engineering Drawing and Assistant Dean, College of Engineering, University of Illinois, Urbana, Ill. 1915

JOURDAN, JOHN W., Designing Engineer, San Joaquin Light and Power Corp., Fresno, Calif. 1919

JUDD, HORACE, Professor of Hydraulic Engineering, The Ohio State University, Columbus, O. 1907

JUNE, HENRY N., Professor of Design, Dept. of Architecture, A. & M. College of Texas, College Station, Tex. 1919

KANE, EDW. W., Instructor in Electrical Engineering, Marquette University, Milwaukee, Wis. 1921

KARAPETOFF, VLADIMIR, Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. 1909
KARTAK, FRANZ A., Professor of Electrical Engineering, Marquette University, Milwaukee, Wis. 1922
KAVANAUGH, W. H., Professor of Experimental Engineering, University of Pennsylvania, Philadelphia, Pa. 1902
KAZDA, CHARLES B., 3115 Haussen St., Chicago, Ill. 1918
KEGERREIS, ROY, Physicist, Curie Hospital, Mayo Clinic, Rochester, Minn. (Life Member) 1913
KELLER, A. R., 2456 Oahn Avenue, Honolulu, T. H. 1910
KELLER, GEORGE J., Assistant Professor of Steam Engineering, The State University of Iowa, Iowa City, Ia. 1919
KELLER, J. O., Industrial Engineering Department, The Pennsylvania State College, State College, Pa. 1916
KELLEY, HOWARD G., c/o Lingo Lumber Co., Dallas, Texas..... 1910
KELLOGG, E. W., Research Laboratory, General Electric Co., Schenectady, N. Y. 1913
KENERSON, W. H., Professor of Mechanical Engineering, Chairman Division of Engineering, Brown University, Providence, R. I. 1903
KENISON, ERVIN, Associate Professor of Drawing and Descriptive Geometry, Massachusetts Institute of Technology, Cambridge, Mass. 1912
KENNEDY, F. L., Associate Professor of Engineering Drawing, Harvard University, Cambridge, Mass. 1904
KENNELLY, A. E., Professor of Electrical Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1916
KENT, BENJAMIN C., Associate Professor of Mechanical Engineering, University of Maine, Orono, Me. 1922
KENT, J. M., Teacher of Steam and Electricity and Radio Engineering, Manual Training High School, Kansas City, Mo. ... 1903
KENYON, H. A., Associate Professor of Romance Languages, University of Michigan, Ann Arbor, Mich. 1923
KERCHNER, RUSSELL M., Instructor in Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1923
KERR, JOSEPH, Assistant Professor of Mechanical Engineering, Rutgers College, New Brunswick, N. J. 1923
KESNER, H. J., Assistant Professor of Civil Engineering, University of Nebraska, Lincoln, Nebr. 1921
KETCHUM, MILO S., Dean, College of Engineering, University of Illinois, Urbana, Ill. 1903
KIDD, J. W., Professor of Engineering, Texas State School of Mines and Metallurgy, El Paso, Tex. 1908

KIDWELL, EDGAR, General Manager, Kidwell Boiler Co., Milwaukee, Wis. 1923
KIEFER, EARL C., James Milliken University, Decatur, Ill. 1921
KIEFER, P. J., Associate Professor of Mechanical and Marine Engineering, Post Graduate School, U. S. Naval Academy, Annapolis, Md. 1917
KIMBALL, D. S., Professor of Industrial Engineering, and Dean, College of Engineering, Cornell University, Ithaca, N. Y. 1915
KING, CARL, Wickwire Spencer Steel Corp., Palmer, Mass. 1912
KING, E. E., Professor of Railway Civil Engineering, University of Illinois, Urbana, Ill. 1908
KING, H. W., Professor of Hydraulic Engineering, University of Michigan, Ann Arbor, Mich. 1913
KING, MORLAND, Professor of Electrical Engineering, LaFayette College, Easton, Pa. 1920
KING, R. S., Professor of Experimental Engineering, Georgia School of Technology, Atlanta, Ga. 1904
KINGMAN, EDWARD D., Instructor in Applied Mechanics, Wentworth Institute, Boston, Mass. 1923
KINGSBURY, ALBERT, 4320 Tackawanna Street, Philadelphia, Pa. 1893
KINNEY, EDWARD D., Associate Professor of Metallurgy, University of Kansas, Lawrence, Kans. 1922
KINSEY, A. S., Professor of Shop Practice, Stevens Institute of Technology, Hoboken, N. J. 1912
KINSLEY, CARL, 115 Lodgeway, Ithaca, N. Y. 1903
KIRBY, R. S., Associate Professor of Engineering Drawing, Sheffield Scientific School, Yale University, New Haven, Conn. 1911
KIRCHNER, W. H., Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1910
KIRK, RAYMOND E., Assistant Professor of Chemistry, University of Minnesota, Minneapolis, Minn. 1923
KIRKHAM, J. E., Professor of Structural Engineering, Iowa State College, Ames, Ia. 1915
KITTREDGE, RAYMOND B., Associate Professor of Railroad Engineering, State University of Iowa, Iowa City, Ia. 1921
KLEIN, A. W., Professor of Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1908
KLEINSCHMIDT, F. A., Assistant Professor of Architecture, Kansas State Agricultural College, Manhattan, Kans. 1924
KLOEFFLER, ROYCE G., Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1919
KNAPP, E. R., Sales Engineer, 50 Church St., New York City 1912

KNAPP, W. A., Associate Professor of Structural Engineering, Assistant Director, Engineering Extension Service, Purdue University, LaFayette, Ind. 1920

KNIGHT, C. D., Professor of Experimental Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1907

KNIGHT, NATHANIEL H., Assistant Professor of Physics, Tufts College, Tufts College, Mass. 1920

KNIGHT, W. A., Professor of Mechanical Practice, The Ohio State University, Columbus, O. 1907

KNIPP, CHARLES T., Professor of Experimental Electricity, University of Illinois, Urbana, Ill. 1921

KNOWLES, MAHLON G., Instructor in Applied Science, Wentworth Institute, Boston, Mass. 1922

KNOWLES, MORRIS, Consulting Engineer, 318 Westinghouse Building, Pittsburgh, Pa. 1914

KNOWLTON, ARCHER E., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1923

KOERBER, G. A., Professor of Electrical Engineering, Delaware College, Newark, Del. 1915

KOLYN, M. D., Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1920

KOMMERS, JESSE B., Associate Professor of Mechanics, University of Wisconsin, Madison, Wis. 1923

KONDO, SENTARO, Civil Engineer, No. 27 Tatsuokacho Hongo, Tokoyo, Japan 1911

KOVARIK, ALOIS F., Associate Professor of Physics, Sheffield Scientific School, Yale University, New Haven, Conn. 1919

KOWALKE, OTTO L., Professor of Chemical Engineering, University of Wisconsin, Madison, Wis. 1918

KRAPF, H. C., Instructor in Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1921

KREWSON, R. H., Teacher of Practical Arts, Frankford High School, Philadelphia, Pa. 1912

KUNZE, E. J., 2nd Vice President, Industrial Management Corp., 405 St. Paul Place, Baltimore, Md.; Lecturer, Industrial Management, University of Maryland..... 1907

KURTZ, E. B., Assistant Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1921

LAFRENIÈRE, THEO. J., Sanitary Engineers, 59 Notre Dame, East Montreal, Canada..... 1923

LAMBERT, B. J., Head, Dept. of Civil Engineering, State University of Iowa, Iowa City, Ia. 1907

LAMBERT, P. A., Professor of Mathematics, Lehigh University, Bethlehem, Pa. 1897

LAMBIE, J. S., Associate Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914
LANDRETH, OLIN H., 140 Park Ave., Mt. Vernon, New York, N. Y. 1893
LANGE, PAULUS J. H., Instructor in English, Iowa State College, Ames, Iowa 1922
LANGILLE, H. B., Associate Professor of Machine Design and Mechanical Drawing, University of California, Berkeley, Cal. ... 1915
LANGFORD, ERNEST, Associate in Architectural Construction, University of Illinois, Urbana, Ill. 1920
LANGSDORF, A. S., Industrial Engineer, Crunden Martin Mfg. Co., 5187 Cabanne Ave., St. Louis, Mo. 1903
LANHAM, EDGAR T., Supt., Forge Laboratories, University of Illinoise, Urbana, Ill. 1922
LANIER, A. C., Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915
LAPHAM, J. R., Professor of Civil Engineering, George Washington University, Washington, D. C. 1912
LARKIN, F. V., Head, Department of Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1912
LAROCHE, EDWIN B., Professor of Architecture, A. & M. College of Texas, College Station, Tex. 1923
LARSON, G. L., Professor of Steam and Gas Engineering, University of Wisconsin, College Hills, Madison, Wis. 1911
LATON, T. J., Assistant Professor of Drawing, University of New Hampshire, Durham, N. H. 1923
LAURSON, PHILIP G., Assistant Professor of Engineering Mechanics, Yale University, New Haven, Conn. 1920
LAWRANCE, C. H., Associate Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1906
LAWRENCE, C. W., Professor of Civil Engineering, University of Southern California, Los Angeles, Cal. 1909
LAWRENCE, ERNEST F., Instructor in Electrical Engineering, Tufts College, Tufts College, (57) Mass. 1921
LAWRENCE, R. R., Professor of Electrical Machinery, Massachusetts Institute of Technology, Cambridge, Mass. 1907
LAWS, F. A., Professor of Electrical Measurements, Massachusetts Institute of Technology, Cambridge, Mass. 1909
LAWTON, E. E., Associate Professor of Electrical Engineering, Syracuse University, Syracuse, N. Y. 1910
LEAR, JOHN E., Professor of Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1924
LEAVITT, HAROLD W., Assistant Professor of Civil Engineering, University of Maine, Orono, Me. 1922

LIST OF MEMBERS.

LeConte, J. N., Professor of Engineering Mechanics, University of California, Berkeley, Calif. 1913

Lee, Alfred O., Associate Professor of Modern Languages, University of Michigan, Ann Arbor, Mich. 1921

Lee, Oscar C., Instructor in Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1923

Lefavour, Howard P., Lecturer and Instructor in Automotive Engineering, Northeastern College, Boston, Mass..... 1922

Lefavour, Roland W., Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1921

Lefebvre, Olivier O., Chief Engineer, Quebec Streams Commission, 247 Mount Royal West, Montreal, Canada 1919

Leighton, Arthur W., Assistant Professor of Graphics, Tufts College, Tufts College, Mass. 1922

Leland, O. M., Dean, College of Engineering and Architecture, and the School of Chemistry, University of Minnesota, Minneapolis, Minn. 1908

Lendall, H. N., Associate Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1912

Lenning, Carroll K., Assistant in Practical Mechanics, Purdue University, LaFayette, Ind. 1922

Leonard, Heman Burr, Professor of Mathematics, University of Arizona, Tucson, Ariz. 1919

LePage, Clifford B., Assistant Secretary, The American Society of Mechanical Engineers, 29 West 39th St., New York City. 1908

Lester, O. C., Professor of Physics, Dean of Graduate School, University of Colorado, Boulder, Colo. 1912

LeTellier, L. S., Professor of Civil Engineering and Drawing, The Citadel, The Military College of South Carolina, Charleston, S. C. 1912

Leutwiler, O. A., Professor of Mechanical Engineering Design, University of Illinois, Urbana, Ill. 1906

Lewis, J. F., Electrical and Railway Engineer, 505 Brinton St., Germantown, Philadelphia, Pa. (Life Member) 1913

Lewis, Robert S., Professor of Mining and Milling, University of Utah, Salt Lake City, Utah 1922

Light, J. J., Assistant Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. 1917

Lilly, S. B., 30 Church St., New York City 1913

Lincoln, P. M., Director, School of Electrical Engineering, Cornell University, Ithaca, N. Y. 1911

Lindell, William F., Instructor in Engineering, University of Delaware, Newark, Del. 1922

LINDBLAD, A. F., Assistant Professor of Naval Architecture, University of Michigan, Ann Arbor, Mich. 1921
LINDEMANN, C. A., Professor of Civil Engineering, Bucknell University, Lewisburg, Pa. 1905
LINDLEY, ROY W., Assistant in Foundry, Purdue University, LaFayette, Ind. 1922
LINVILLE, C. P., Metallurgical Engineer American Smelting & Refining Co., Perth Amboy, N. J. 1904
LITTLE, ARLINGTON P., Professor of Electrical Engineering, Colorado School of Mines, Golden, Colo. 1918
LOCKWOOD, E. H., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1908
LORING, WARREN E., 9 Cedar St., Charleston, 29, Mass. 1922
LORY, C. A., President, State Agricultural College of Colorado, Fort Collins, Colo. 1908
LOTT, S. H., Assistant Professor and Head of Mechanical Drawing Division of Dept. of Machine Design, Stevens Institute of Technology, Hoboken, N. J. 1921
LOURIA, MILTON R., Instructor, University of Maine, Orono, Me. 1922
LOVE, A. C., State Highway Dept., Beaumont, Texas..... 1900
LOVELL, ALFRED H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1920
LOVETT, I. H., Assistant Professor of Electrical Engineering, University of Missouri, Rolla, Mo. 1921
LUCKE, C. E., Professor of Mechanical Engineering and Head of Dept., Columbia University, New York, N. Y. 1906
LUDBERG, A. P., Associate Professor of Civil Engineering, University of Idaho, Moscow, Ida. 1924
LUDERITZ, JOAO, Engenheiro Chefo-Instituto Technico Professional, Porto Alegre, Brazil 1909
LUDY, L. V., Professor of Experimental Engineering, Purdue University, LaFayette, Ind. 1902
LUEBS, AUGUST A., Assistant Professor of Mechanical Engineering, University of Nebraska, Lincoln, Nebr. 1921
LUND, JACOB, Supt. Heat and Power Dept., Kansas State Agricultural College, Manhattan, Kans. 1910
LUTHER, H. B., Professor of Civil Engineering, University of Cincinnati, Cincinnati, O. 1914
LYLE, WM. T., Professor of Civil Engineering, Washington and Lee University, Lexington, Va. 1914
LYMAN, RICHARD R., Civil and Consulting Engineer, 47 E. So. Temple St., Salt Lake City, Utah 1908
LYNCH, D. E., Intructor in Forging, Foreman, Blacksmith Shop, Kansas State Agricultural College, Manhattan, Kans. 1915

1921 LYNE, LEWIS F., JR., President and Mechanical Engineer, Oil Specialities and Supply Co., 39 Cortland St., New York City.. 1923

1905 LYON, ALPHEUS C., Associate Professor of Civil Engineering, University of Maine, Orono, Me. 1922

1922 LYON, DORSEY A., Asssitant Director and Chief Metallurgist, U. S. Bureau of Mines, Dept. of the Interior, Washington, D. C. 1923

1904 LYTLE, CHAS. W., Director of Industrial Coördination, New York University, New York City 1922

1918 MCALLISTER, A. S., Physicist, Bureau of Standards, Washington, D. C. 1911

1908 1922 MCANLIS, CHAUNCEY R., Associate in Architectural Engineering, University of Illinois, Urbana, Ill. 1922

1908 MCCAFFERY, R. S., Professor of Metallurgy, University of Wisconsin, Madison, Wis. 1911

MCCABE, FRANCIS T., Instructor in Rindge Technical School, Cambridge, Mass. 1921

1921 1922 1900 MCCANDLISS, L. C., Assistant Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

1920 MCCANN, WM. R., Electrical Engineer, care of Stone & Webster, 147 Milk St., Boston, Mass. 1912

MCCARTHY, R. H., Instructor in Electrical Engineering, University of Nevada, Reno, Nev. 1924

1921 MCCAUGHEY, W. J., Professor of Mineralogy, The Ohio State University, Columbus, Ohio 1923

1906 MCCAUSTLAND, E. J., Dean, School of Engineering, and Director Engineering Experiment Station, University of Missouri, Columbia, Mo. 1902

1924 1909 MCCLAIN, F. H., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1921

1902 MCCLELLAND, E. H., Technology Librarian, Carnegie Library of Pittsburgh, Pittsburgh, Pa. 1912

1921 MCCLINTIC, H. H., Vice-President McClintic-Marshall Construction Co., Pittsburgh, Pa. 1910

1910 MCCLINTOCK, WM. MCK., Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. 1922

1914 MCCORMICK, C. M., Assistant Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1917

1914 MCCOURT, WALTER E., Dean, Schools of Engineering and Architecture, Professor of Geology, Washington University, St. Louis, Mo. 1922

1908 MCCULLOUGH, F. M., Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1910

1915

McDaniel, Allen B., Educational Specialist, Advisory Board, General Staff, War Dept., 353 State War & Navy Bldg., Washington, D. C. 1907

McDiarmid, George Cox, Head Dept. of Mathematics, Ohio Mechanics Institute, Cincinnati, O. 1919

McDonald, P. B., Assistant Professor of English, New York University, University Heights, New York, N. Y. 1917

McEachron, K. B., 52 Stratford Street, Pittsfeld, Mass. 1916

McGrath, E. L., 1613 Grove St., Berkeley, Calif. 1916

McGrath, Frank P., Instructor in Advanced Mechanical Drawing, Purdue University, LaFayette, Ind. 1922

McGregor, Howard L., Assistant President, National Twist Drill & Tool Co., Detroit, Mich. 1921

McIntyre, H. K., Professor of Electrical Applications, North Carolina State College, Raleigh, N. C. 1923

McIntyre, Lewis W., Assistant Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1919

McJoynt, Thos. L., Professor of Coördination, Municipal University of Akron, Akron, O. 1924

McKee, Ralph H., Professor of Chemical Engineering, Columbia University, New York, N. Y. 1919

McKergow, C. M., Professor of Mechanical Engineering, McGill University, Montreal, Canada 1913

McKibben, F. P., Professor of Civil Engineering, Union College, Schenectady, N. Y. 1904

McKiel, Harold W., Professor of Engineering; Secretary, Engineering Faculty, Mount Allison University, Sackville, N. B., Canada 1922

McNair, F. W., President, Michigan College of Mines, Houghton, Mich. 1897

McNeilly, Robert H., Professor of Civil Engineering, Vanderbilt University, Nashville, Tenn. 1919

McNew, John T. L., Assistant Professor of Civil Engineering, A. & M. College of Texas, College Station, Tex. 1923

McNown, W. C., Professor of Highway Engineering, University of Kansas, Lawrence, Kans. 1915

Macalpine, John H., Consulting Engineer, 5537 Hampton St., Pittsburgh, Pa. 1921

Macarthur, J. R., Associate Professor of Modern Languages, California Institute of Technology, Pasadena, Calif. 1915

MacCracken, J. H., President, Lafayette College, Easton, Pa. 1913

Maccouochie, Arthur F., Assistant Professor of Mechanical Engineering, University of Virginia, University, Va. 1923

MacCullough, Gleason H., Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1922
1907 Macdonald, S. L., Head of the Department of Mathematics, Colorado State Agricultural College, Ft. Collins, Colo. 1914
1919 Mack, Albert J., Assistant Professor of Mechanical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1919
1917 MacKavanagh, T. J., Professor of Electrical Engineering, Catholic University of America, Washington, D. C. 1916
1916 MacKay, H. M., Professor of Civil Engineering, McGill University, Montreal, Quebec, Canada 1914
1916 Mackenzie, C. J., Dean of Engineering, University of Saskatchewan, Saskatoon, Sask., Canada 1915
1922 Mackenzie, Wm. R., Professor of English, Washington University, St. Louis, Mo. 1922
1921 MacKinnon, L. W., Director, Junior College, University of Toledo, Toledo, Ohio 1923
1923 MacLean, Edward A., Assistant Professor of Civil Engineering, South Dakota State School of Mines, Rapid City, S. D. 1923
1919 Maclin, Edward S., Professor of Industrial Education, West Virginia University, Morgantown, W. Va. 1922
1924 MacNaughton, Edgar, Professor of Mechanical Engineering, Tufts College, Tufts College, Mass. 1916
1919 MacNaughton, Jas., Vice-President and General Manager, Calumet and Hecla Mines; Member Board of Control, Michigan College of Mines, Calumet, Mich. 1905
1913 MacNutt, Barry, Professor of Physics, Lehigh University, Bethlehem, Pa. 1910
1904 Macomber, G. S., Director of Public Utilities, City of Buffalo, 332 Ellicott St., Buffalo, N. Y. 1904
1922 Magnusson, C. E., Professor of Electrical Engineering, Dean, College of Engineering, University of Washington, Seattle, Wash. 1907
1897 Magruder, Wm. T., Professor of Mechanical Engineering, The Ohio State University, Columbus, O. 1893
1919 Main, C. T., Consulting and Constructing Engineer, 14 Herrick St., Winchester, Mass. 1911
1923 Mall, Ivor O., Assistant Professor of Mechanical Engineering, Tulane University, New Orleans, La. 1922
1915 Mallory, Francis, Professor of Physics, Virginia Military Institute, Lexington, Va. 1912
1913 Mann, C. A., Chief of Division and Professor of Chemical Engineering, School of Chemistry, University of Minnesota, Minneapolis, Minn. 1917
1923

MANN, C. L., Professor of Civil Engineering, North Carolina State College of Agriculture and Engineering, West Raleigh, N. C... 1917
MANN, C. R., Director, American Council on Education, 26 Jackson Place, Washington, D. C. 1914
MANN, HORACE T., Rolla, Mo. 1919
MANSON, EDMUND S. JR., Associate Professor of Astronomy, The Ohio State University, Columbus, O. 1923
MAO, T. E., Dean, College of Engineering, National South Eastern University, Nanking, China 1923
MARCELLUS, JONTA B., Associate Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1924
MARK, ROBERT M., R. F. D. No. 4, Westerville, Ohio 1919
MARKER, J. R., Chief Engineer, Ohio Paving Brick Mfgrs. Association, Columbus, O. 1913
MARKLE, E. W., Assistant Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1923
MARKS, L. S., Professor of Mechanical Engineering, Harvard University, Cambridge, Mass. 1909
MARQUIS, F. W., Professor of Steam Engineering, Ohio State University, Columbus, Ohio 1910
MARSDEN, RAYMOND R., Professor of Civil Engineering, Dartmouth College, Hanover, N. H. 1922
MARSHALL, WM., Professor and Head, Dept. of Mathematics, Purdue University, LaFayette, Ind. 1923
MARSTON, ANSON, Dean of the Division of Engineering and Director of the Engineering Experiment Station, Iowa State College, Ames, Ia. 1894
MARTENIS, J. VAN S., Associate Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1908
MARTIN, EDWIN R., Assistant Professor of Electric Power Engineering, University of Minnesota, Minneapolis, Minn. 1920
MARTIN, T. C., Advisory Secretary, The National Electric Light Association, 29 West 39th St., New York, N. Y. 1909
MARTIN, T. J., JR., Instructor in Mechanical Drawing, North Carolina State College, Raleigh, N. C. 1923
MARTIN, W. H,, Professor of Heat Engineering, Oregon Agricultural College, Corvallis, Ore. 1913
MARUTH, C. H., Assistant Registrar, State University of Iowa, Iowa City, Iowa 1924
MARVIN, CLOYD H., President, University of Arizona, Tucson, Ariz. 1923
MARVIN, HENRY H., Professor of Physics, Brace Laboratory of Physics, University of Nebraska, Lincoln, Nebr. 1914
MARX, C. D., Professor of Civil Engineering, Leland Stanford Junior University, Stanford University, Calif. 1893

LIST OF MEMBERS.

MATHEWSON, CHAMPION H., Professor of Metallurgy, Yale University, New Haven, Conn. 1921

MATTHEWS, THOMAS, Assistant Professor of Electrical Engineering, University of Iowa, Iowa City, Iowa..... 1922

MAURER, E. R., Professor of Mechanics, University of Wisconsin, Madison, Wis. 1897

MAXFIELD, M. J., Instructor in Applied Electricity, Pratt Institute, Brooklyn, N. Y. 1924

MAY, CHAS. C., Instructor in Civil Engineering, University of Washington, Seattle, Wash. 1912

MEAD, D. W., Professor of Hydraulic and Sanitary Engineering, University of Wisconsin, Madison, Wis. 1908

MEEKER, W. H., Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1903

MEES, C. L., President Emeritus, Rose Polytechnic Institute, Terre Haute, Ind. 1894

MEHRHOF, FLOYD E., Instructor in Mechanical Engineering, Rutgers College, New Brunswick, N. J. 1923

MEIKLEJOHN, ROBERT, Assistant Professor of Engineering Drawing, Ohio State University, Columbus, O. 1909

MENDENHALL, T. C., 329 N. Chestnut St., Ravenna, O. (Honorary Member) 1895

MERRILL, J. F., Director of the Utah State School of Mines and Engineering; Professor of Physics and Electrical Engineering, University of Utah, Salt Lake City, Utah 1907

MERRIMAN, MANSFIELD, 1071 Madison Ave., New York, N. Y. 1893

MESTON, CHAS. R., 17 West 44th St., New York City 1922

MEYER, J. F., Bureau of Standards; Lecturer in Electricity, Geo. Washington University, Washington, D. C. 1923

MICKEY, CLARK E., Chairman, Civil Engineering Dept., University of Nebraska, Lincoln, Nebr. 1912

MILES, EGBERT J., Assistant Professor of Mathematics, Yale University, New Haven, Conn. 1922

MILLAR, A. V., Assistant Dean, College of Engineering, Professor of Drawing and Descriptive Geometry, University of Wisconsin, Madison, Wis. 1914

MILLER, DAYTON C., Professor of Physics, Case School of Applied Science, Cleveland, O. 1907

MILLER, HUGH, Dean, College of Engineering, George Washington University, Washington, D. C. 1909

MILLER, H. W., Professor of Mechanism and Engineering Drawing, University of Michigan, Ann Arbor, Mich. 1922

MILLER, JAMES S., Adjunct Professor of Experimental Engineering, University of Virginia, University, Va. 1921
MILLER, S. O., Consulting Engineer, Columbia University, New York, N. Y. 1917
MILLER, WILLIAM J., Electrical and Mechanical Research Engineer, Engineering Experiment Station, University of Arkansas, Fayetteville, Ark. 1923
MILLS, JOHN, Educational Director, Engineering Dept., Western Electric Co. Inc., 463 West St., New York City 1921
MING, FREDERICK W., Instructor in Mechanical Engineering, The Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1918
MINSHALL, ROBERT E., Associate Professor of Structural Engineering, The Pennsylvania State College, State College, Pa. 1921
MITCHELL, GROVER I., Associate Professor of Trades and Industries, Iowa State College, Ames, Iowa 1918
MITCHELL, LOUIS, Dean and Professor of Civil Engineering, Syracuse University, Syracuse, N. Y. 1913
MOEN, R. O., Head, Dept. of Industrial Management, North Carolina State College, Raleigh, N. C. 1923
MOFFETT, JOHN H., 10 Glencoe Place, Cincinnati, Ohio..... 1922
MOLITOR, FRED. W., Teacher of Vocational Electricity, Arsenal Technical Schools, 832 Tecumseh Place, Indianapolis, Ind..... 1923
MOODY, L. F., Consulting Engineer, I. P. Morris Dept., Wm. Cramp & Sons Ship and Engine Building Co., Philadelphia, Pa. 1912
MOOMAW, DALTON, 202 Dean Bldg., South Bend, Ind. 1911
MOORE, EDWARD J., Assistant Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1923
MOORE, H. F., Professor of Engineering Materials, University of Illinois, Urbana, Ill. 1905
MORE, CHAS. C., Professor of Civil Engineering, and Head Civil Engineering Department, University of Washington, Seattle, Wash. 1901
MORECROFT, J. H., Associate Professor of Electrical Engineering, Columbia University, New York, N. Y. 1908
MORGAN, ARTHUR E., President, Dayton Morgan Engineering Co., Dayton; President, Antioch College, Yellow Springs, O. 1921
MORLEY, RAYMOND K., Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. 1922
MORRILL, J. B., Manager, Reed Reduction Co., Palo Alto, Calif. ... 1914
MORRIS, C. T., Professor of Structural Engineering, The Ohio State University, Columbus, O. 1907
MORRIS, J. J., Professor of Mechanical Constructive Practice, University of Pennsylvania, Philadelphia, Pa. 1912

MORRISON, I. F., Professor of Applied Mechanics, University of Alberta, Edmonton, Alta, Canada 1912
MORROW, L. W. W., Editor, *Electrical World*, McGraw-Hill Co., 10th Ave. at 36th St., New York City 1917
MORSE, J. L., Professor of Mechanical Engineering, Colorado School of Mines, Golden, Colo. 1910
MOSS, EVERETT, 115 Commonwealth Ave., Boston, Mass. 1910
MOSER, CHAS., Associate Professor of Civil Engineering, Stanford University, Stanford University, Calif. 1918
MOSS, S. A., Mechanical Engineer, Thomson Laboratory, General Electric Co., Lynn, Mass. 1911
MOTT, W. E., Director College of Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1907
MOYER, J. A., Director, Division of University Extension, Massachusetts Department of Education, Boston, Mass. 1904
MUDGE, STERLING W., Assistant Head, Dept. of Industrial Mechanical Engineering, Pratt Institute, Brooklyn, N. Y. 1923
MUESES, MARIO C., Assistant Professor of Mechanical Engineering, University of Porto Rico, Mayaguez, P. R. 1924
MUHLFELD, J. E., Sherbrooke Road, Scarsdale, N. Y. 1911
MUNRO, G. W., Professor of Thermodynamics, Purdue University, LaFayette, Ind. 1915
MUNRO, M. S., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1914
MUNROE, H. S., Emeritus Professor of Mining, Columbia University, Litchfield, Conn. 1893
MUNSON, THURMOND A., Associate Professor of Civil Engineering, A. & M. College of Texas, College Station, Tex. 1923
MURPHY, R. K., Head of Science Dept., Sydney Teachers College, Sydney, Australia 1914
MURRAY, D. A., Professor of Applied Mathematics, McGill University, Montreal, Canada 1910
MURRIE, J. L., Consulting Engineer, 74 Broadway, New York, N. Y. 1915
MYERS, HOWARD D., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1922
NAETER, ALBRECHT, Associate Professor of Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1924
NAGLER, F. A., Associate Professor of Mechanics and Hydraulics, State University of Iowa, Iowa City, Ia. 1921
NASH, C. A., Assistant Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1913
NASH, PHILLIP C., Dean and Professor of Civil Engineering, Antioch College, Yellow Springs, O. 1921

NASSAU, J. J., Assistant Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1921

NAVARRO, J. J. M. L., Assistant Electrical Engineer, Philippine Engineering Co., 121 L. Guerrero, Ermite, Manila, P. I. ... 1923

NEEDY, JOHN A., Assistant Professor of Mechanical Engineering, Purdue University, LaFayette, Ind. 1919

NEEL, WM. T., Engineer, Philadelphia Electric Co., Philadelphia, Pa. 1914

NEFF, F. H., Professor of Civil Engineering, Case School of Applied Science, Cleveland, O. 1895

NELSON, J. R., Professor of English in the Colleges of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1914

NELSON, THOMAS, Professor of Textile Engineering, North Carolina State College, Raleigh, N. C. 1923

NELSON, W. K., Assistant Professor of Engineering Mathematics, University of Colorado, Boulder, Colo. 1923

NETSCHERT, WM., JR., Professor of Mechanical Engineering, Newark Technical School, Newark, N. J. 1923

NEUMANN, WARREN R., Assistant Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1922

NEWCOMBE, J. L., Professor of Civil Engineering, University of Virginia, University, Va. 1915

NEWKIRK, B. L., Research Laboratory, General Electric Co., Schenectady, N. Y. 1908

NEWMAN, C. M., Professor of English, Virginia Polytechnic Institute, Blacksburg, Va. 1917

NEWTON, GUY D., Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1913

NISSAR, A. R., Deputy Head, Electrical Engineering Dept., Victoria Jubilee Technical Institute, Byculla, India 1923

NOLD, H. E., Professor of Mine Engineering, The Ohio State University, Columbus, O. 1916

NORRIS, EARLE B., Dean of Engineering, University of Montana, Bozeman, Mont. 1907

NORRIS, H. H., Assistant to the President, McGraw-Hill Co., Inc., 10th Ave. at 36th St., New York, N. Y. 1900

NORMAN, CARL A., Professor of Machine Design, The Ohio State University, Columbus, O. 1918

NORTHCOTT, J. A., Assistant Professor of Mathematics, Columbia University, New York City 1915

NORTON, A. E., Associate Professor of Mechanical Engineering, Harvard University, Cambridge, Mass. 1910

NORTON, C. L., Massachusetts Institute of Technology, Cambridge, Mass. 1908

NORWOOD, C. J., Head of Dept. of Mines and Metallurgy College of Engineering, University of Kentucky, Lexington, Ky. 1907

NOTTINGHAM, A. R., General Motors Co., 9652 Yosemite Ave., Detroit, Mich. 1910

NUDD, WILLARD E., Instructor in Descriptive Geometry and Mechanical Drawing, Case School of Applied Science, Cleveland, O. 1923

NUGENT, P. C., Professor of Civil Engineering, University of Arizona, Tucson, Ariz. 1914

NUTTING, P. J., Manager, Toledo Factory, Combustion Utilities Corporation, Toledo, O. 1923

NYSWANDER, R. E., Professor of Physics and Director, School of Electrical Engineering, University of Denver, Denver, Colo. 1912

O'BRIEN, A. V., Superintendent, Engineering Shops, State University of Iowa, Iowa City, Iowa 1923

OCKERBLAD, A. M., Assistant Professor of Mechanics, University of Kansas, Lawrence, Kans. 1911

ODELL, A. T., 219 Clifford Court, Madison, Wis. 1923

OHLE, E. L., Professor of Mechanical Engineering, Washington University, St. Louis, Mo. 1905

OLBRICH, E. R., Construction Engineer, North Carolina State Highway Commission, Raleigh, N. C. 1920

OLSEN, TINIUS, President, Tinius Olsen Testing Machine Co., 500 N. 12th St., Philadelphia, Pa. 1907

OLSON, O. A., Assistant Professor of Mechanical Engineering, Iowa State College, (706 Wilson Ave.,) Ames, Ia. 1915

ORBECK, MARTIN J., Resident Engineer, Holland, Ackerman and Holland, Ann Arbor, Mich. 1920

O'ROURKE, CHAS. E., Assistant Professor of Structural Engineering, Cornell University, Ithaca, N. Y. 1922

ORTH, H. D., Head, Dept. of Drawing and Descriptive Geometry, University of Wisconsin, Madison, Wis. 1910

OSBORNE, L. A., Vice-President, Westinghouse Electric & Mfg. Co., 165 Broadway, New York, N. Y. 1911

O'SHAUGHNESSY, LOUIS, Professor of Applied Mathematics, Virginia Polytechnic Institute, Blacksburg, Va. 1912

OSTRANDER, J. E., Professor of Mathematics and Civil Engineering, Massachusetts Agricultural College, Amherst, Mass. 1894

OVERHOLT, HARLEY G., Instructor in Mathematics, St. Thomas College, St. Paul Minn. 1922

OWENS, R. B., Secretary of The Franklin Institute, Philadelphia, Pa. 1894

PAGE, HUBBARD F., Assistant Professor of English, A. & M. College of Texas, College Station, Tex. 1923

PAINE, ELLERY B., Professor of Electrical Engineering, Head of the Department, University of Illinois, Urbana, Ill. 1911

PAINE, FRANK D., Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1915

PALMER, C. I., Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill. 1922

PALMER, W. S., Professor of Metallurgy, Mackay School of Mines, University of Nevada, Reno, Nev. 1924

PALSGROVE, GRANT K., Professor of Hydraulic Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1918

PARCEL, J. I., Professor of Structural Engineering, University of Minnesota, Minneapolis, Minn. 1910

PARK, C. F., Professor of Mechanism, Director of the Mechanical Laboratories, Director of Lowell Institute School for Industrial Foremen, Massachusetts Institute of Technology, Cambridge, Mass. 1903

PARK, C. W., Professor of English, College of Engineering and Commerce, University of Cincinnati, Cincinnati, O. 1915

PARKER, GEORGE S., Assistant Professor of Electrical Engineering, Syracuse University, Syracuse, N. Y. 1922

PARKER, J. C., Electrical Engineer, Pearl and Willoughby Sts., Brooklyn, N. Y. 1916

PARKIN, J. H., Assistant Professor of Mechanical Engineering, University of Toronto, Toronto, Ontario, Canada 1915

PARKINSON, HAROLD W., Instructor in Railway Mechanical Engineering, University of Illinois, Urbana, Ill. 1923

PARKS, C. W., Rear Admiral, United States Navy, Retired, 1829 Mintwood Place, Washington, D. C. 1911

PARMER, J. F., Instructor in Civil Engineering, Purdue University, LaFayette, Ind. 1921

PARSONS, F. M., Professor of Engineering, Whittier College, Whittier, Calif. 1919

PATTEN, W. E., Professor of Hydraulic Engineering, Tangshan University, Tangshan, North China 1915

PATTERSON, L. L., Professor of Electrical Engineering, Supt. of Electrical Service, Mississippi A. & M. College, Agricultural College, Miss. 1915

PAUL, C. E., Professor of Mechanics, Armour Institute of Technology, Chicago, Ill. 1907

PAULL, NORMAN M., Professor of Drawing, University of North Carolina, Chapel Hill, N. C. 1920

PAWLOWSKI, FELIX W., Professor of Aeronautical Engineering, University of Michigan, Ann Arbor, Mich. 1921

PEARCE, C. E., Assistant Professor of Applied Mechanics and Machine Design, Kansas State Agricultural College, Manhattan, Kans. 1917

PEARSALL, PLATT A., Instructor in Chemistry, University of Maine, Orono, Me. 1922

PEARSON, H. G., Professor of English, Head, Department of English and History, Massachusetts Institute of Technology, Cambridge, Mass. 1923

PEARSON, R. A., President, Iowa State College, Ames, Ia. 1914

PEET, J. C., Professor of Electrical Engineering, Newark Technical School, Newark, N. J. 1923

PEGRAM, GEORGE B., Dean, School of Mines, Engineering and Chemistry, Professor of Physics, Columbia University, New York, N. Y. 1918

PEHRSON, E. W., Associate Professor of Mathematics, University of Utah, Salt Lake City, Utah 1915

PEIDELL, THOMAS G., Associate Professor of Electrical Engineering, Georgia School of Technology, Atlanta, Ga. 1923

PENCE, W. D., Consulting Engineer, Room 1318, No. 8, So. Dearborn St., Chicago, Ill. 1895

PENDER, HAROLD, Professor-in-charge, Electrical Engineering, University of Pennsylvania, Philadelphia, Pa. 1909

PENN, J. C., Assistant to the Dean and Examiner, Armour Institute of Technology, Chicago, Ill. 1915

PERKINS, DONALD L., Instructor in Shop Practice, University of Michigan, Ann Arbor, Mich. 1923

PERRY, C. F., Supervisor of Manual and Industrial Training, Milwaukee Public Schools, Milwaukee, Wis. 1907

PERRY, JOHN E., Assistant Professor of Railroad Engineering, Cornell University, Ithaca, N. Y. 1922

PERRY, LYNN, Assistant Professor of Civil Engineering, Lafayette College, Easton, Pa. 1923

PERRY, W. G., Associate Professor of English, Georgia School of Technology, Atlanta, Ga. 1919

PERRY, WILLIAM S., Assistant Professor of Physics and Electrical Engineering, University of Florida, Gainesville, Fla. 1918

PERSON, F. G., Professor of Physics, Head, Dept. of Physics and Electrical Engineering, State Agricultural College, Fort Collins, Colo. 1918

PERTSCH, JOHN G. JR., Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. 1923

PETERSON, JOHN C., Associate Professor of Education, Kansas State Agricultural College, Manhattan, Kans. 1921

PETERSON, JOSEPH A., Professor of Mechanical Engineering, A. & M. College of Texas, College Station, Tex. 1923
PETTEE, C. H., Dean, New Hampshire College, Durham, N. H. 1898
PFEIF, G. H., Director of Industrial Relations, General Electric Co., Schenectady, N. Y. 1918
PHELON, J. O., Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1902
PHELPS, H. E., Professor of Highway Engineering, State College of Washington, Pullman, Wash. 1924
PHILBRICK, H. S., Professor of Mechanical Engineering, Northwestern University, Evanston, Ill. 1913
PIERPORT, ARTHUR DE, Head, Dept. of Romance Languages, Rensselaer Polytechnic Institute, Troy, N. Y. 1922
PINNEY, J. C., Dean, College of Applied Science and Engineering, Marquette Unversity, Milwaukee, Wis. 1919
PIPER, FRED. F., Professor of Physics, Clarkson College of Technology, Potsdam, N. Y. 1915
PLANK, WILLIAM B., Head, Dept. of Mining Engineering, Lafayette College, Easton, Pa. 1921
PLANT, L. C., Head of the Department of Mathematics, Michigan Agricultural College, East Lansing, Mich. 1913
PLATT, JAMES H., Assistant Professor of Mechanical Engineering, George Washington University, Washington, D. C. 1923
PLUMMER, H. C., Instructor, Dept. of Mechanics, Case School of Applied Science, Cleveland, O. 1921
POND, FRANCIS J., Professor of Chemistry and Director of Chemical Laboratory, Stevens Institute of Technology, Hoboken, N. J.. 1912
POND, M. A., Associate Professor of Civil Engineering, Cornell University, Ithaca, N. Y. 1923
POORMAN, A. P., Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1907
PORTER, DAVID B., Assistant Professor of Industrial Engineering, New York University, New York City 1923
PORTER, DWIGHT, Professor Emeritus, Massachusetts Institute of Technology; 149 Hawthorne, St., Malden, Mass. 1893
PORTER, F. M., Assistant Professor of Engineering Drawing, University of Illinois, Urbana, Ill. 1912
PORTER, J. B., Professor of Mining Engineering, McGill University, Montreal, Quebec, Canada 1904
PORTER, J. F., President, Kansas City Power & Light Co., Kansas City, Mo. 1912
PORTER, J. MADISON, Consulting Engineer, Easton, Pa. 1893
PORTER, R. A., Professor of Physics, Syracuse University, Syracuse, N. Y. 1908

Porter, R. H., N. J. Zinc Co., Palmerton, Pa. 1915
Potter, A. A., Dean, Schools of Engineering, Purdue University, LaFayette, Ind. 1908
Potts, Clyde, Civil and Sanitary Engineer, 30 Church St., New York City 1922
Pound, J. H., Assistant Professor of Mechanical Engineering, Rice Institute, Houston, Tex. 1916
Powell, Ralph W., Head, Dept. of Applied Mathematics, College of Yale in China, Changsha, Hunan, China 1922
Power, Ralph L., Professional Lecturer. Southwestern University, 1142 West 37th St., Los Angeles, Calif. 1923
Powers, W. P., Assistant Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914
Prageman, Irwing H., Instructor in Drawing, State University of Iowa, Iowa City, Iowa 1923
Prentice, D. B., Chairman, Engineering Committee, Professor of Mechanical Engineering, Lafayette College, Easton, Pa. 1912
Press, Abraham, 319 Dorset Ave., Chevy Chase, Md. 1916
Price, Chas. B., Instructor in Mathematics and Drawing, Boys Trade School; Assistant Supervisor of Evening Trade School, Worcester Trade School, Worcester, Mass. 1914
Price, Harold W., Professor of Electrical Engineering, University of Toronto, Toronto, Ont., Canada 1924
Price, P. W., Assistant Professor of Engineering, North Carolina State College, Raleigh, N. C. 1923
Priester, George C., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1920
Prime, A. C., Consulting Engineer, 2212 Locust St., Philadelphia, Pa. (Life Member) 1910
Prior, John A., Assistant Professor Mechanical Engineering, Lafayette College, Easton, Pa. 1923
Pritchard, S. R., Dean of Engineering and Professor of Electrical Engineering, Virginia Polytechnic Institute, Blacksburg, Va... 1914
Probert, F. H., Dean, College of Mining, Professor of Mining, University of California, Berkeley, Calif. 1917
Provine, Loring H., Professor of Architectural Engineering, in charge of Dept. of Architecture, University of Illinois, Urbana, Ill. 1920
Pryor, F. L., Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J., 5 Colt St., Paterson, N. J. 1908
Puffer, Louis B., Associate Professor of Civil Engineering, University of Vermont, Burlington, Vt. 1922
Pugh, Emerson, Williamsport, Ind. 1921

PULLEN, M. W., Associate in Electrical Engineering, Johns Hopkins University, Baltimore, Md. 1909
PURYEAR, CHARLES, Dean and Professor of Mathematics, Texas A. and M. College, College Station, Texas 1901
RABER, B. F., Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1915
RADEBAUGH, GUSTAV H., Associate in Factory Management and Machine Shop Practice, Assistant Manager, Shop Laboratories, University of Illinois, Urbana, Ill. 1914
RANDALL, HARRISON M., Professor of Physics, University of Michigan, Ann Arbor, Mich. 1921
RANDALL, J. A., President, Mechanics Institute, Rochester, N. Y. 1911
RAPPEL, U. J., Professor of Electrical Engineering, University of Dayton, Dayton, O. 1919
RATH, EDWIN R., Assistant Professor of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1919
RAYMOND, F. N., Professor of English, University of Kansas, Lawrence, Kans., Hammondsport, N. Y. 1910
RAYMOND, H. M., President, Armour Institute of Technology, Chicago, Ill. 1903
RAYMOND, ROBERT M., Professor of Mining, Columbia University, New York City 1923
RAYMOND, W. G., Dean of the College of Applied Science and Professor of Engineering, State University of Iowa, Iowa City, Ia. 1893
RAYMOND, WILLIAM R., Professor of English, Chairman, Group of English Teachers, Iowa State College, Ames, Ia. 1922
RAYNER, WM. H., Assistant Professor of Surveying, University of Illinois, Urbana, Ill. 1913
REBER, LOUIS E., Dean, University Extension Division, University of Wisconsin, Madison, Wis. 1893
REED, K. W., Assistant Chief Engineer, Development Engineering Dept., The American Laundry Machinery Co., Cincinnati, O. 1915
REED, PERCY L., Professor of Civil Engineering, University of Florida, Gainesville, Fla. 1914
REID, CLARENCE E., Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1907
REMICK, B. L., Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1915
REW, IRWIN, Trustee of Northwestern University, 217 Dempster St., Evanston, Ill. 1913
REYBOLD, EUGENE, Major, Coast Artillery Corps, Constructing Quartermaster, Fort Monroe, Va. 1919

REYNOLDS, JAMES A., Instructor in Electrical Engineering, Tufts College, Tufts College, Mass. 1922

REYNOLDS, JOSEPH B., Associate Professor of Mathematics and Astronomy, Lehigh University, Bethlehem, Pa. 1920

RICE, HARRIS, Assistant Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. 1919

RICE, H. A., Professor of Civil Engineering, University of Kansas, Lawrence, Kans. 1915

RICE, LEPINE H., Instructor in Mathematics, Massachuestts Institute of Technology, Cambridge, Mass. 1918

RICH, DANIEL L., Assistant Professor of Physics, University of Michigan, Ann Arbor, Mich. 1921

RICHARDS, ALFRED E., Professor of English and Head, Department of English, University of New Hampshire, Durham, N. H. ... 1923

RICHARDS, CHARLES RUSS, President, Lehigh University, Bethlehem, Pa. 1895

RICHARDS, CHAS. RUSSELL, Director, Cooper Union, New York, N. Y.; c/o Equitable Trust Co., 23 Rue de la Paix, Paris, France 1904

RICHARDS, WM. H., Instructor in Manual Training and Pattern Making, University of Minnesota, Minneapolis, Minn. 1910

RICHARDSON, G. R., 42 Webster St., Allston, Mass. 1912

RICHARDSON, M. R., Durham, N. C. 1910

RICHEY, J. J., Professor of Civil Engineering, A. & M. College of Texas, College Station, Tex. 1910

RICHTER, A. W., President, Price Mfg. Co., Yakima, Wash. 1894

RICKER, CLAIRE W., Assistant Professor of Electrical Engineering Massachusetts Institute of Technology, Cambridge, Mass. 1921

RICKER, N. C., Emeritus Professor of Architecture, University of Illinois, Urbana, Ill. 1894

RIESENBERGER, ADAM, Registrar and Treasurer, Stevens Institute of Technology, Hoboken, N. J. 1908

RIETZ, HENRY LEWIS, Professor and Head of Department of Mathematics, The State University of Iowa, Iowa City, Ia. 1919

RIGGS, H. E., Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1913

RIGGS, N. C., Professor of Applied Mechanics, Carnegie Institute of Technology, Pittsburgh, Pa. 1907

RIGHTS, EUGENE J., Professor of Civil Engineering, University of Porto Rico, Mayaguez, P. R. 1923

RILLIET, CHARLES E., Care of Washburne Continuation School, 2311 Commonwealth Ave., Chicago, Ill. 1919

RISLEY, W. J., Professor of Mathematics, Colorado School of Mines, Golden, Colo. 1910

RITTENHOUSE, L. H., Professor of Engineering, Haverford College, Haverford, Pa. 1906

RITTMAN, WALTER F., Professor of Commercial Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1924

ROARK, RAYMOND J., Associate Professor of Mechanics, University of Wisconsin, Madison, Wis. 1919

ROBB, WM. L., Professor of Electrical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

ROBBINS, A. G., Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1894

ROBERT, JAMES M., Professor of Machine Design, Tulane University, New Orleans, La. 1922

ROBERTS, EMERSON B., Educational Dept., Westinghouse E. & M. Co., East Pittsburgh, Pa. 1919

ROBERTS, MILNOR, Dean of the College of Mines, and Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash. 1910

ROBERTSON, BURTON J., Assistant Director, Experiment Engineering Laboratory, Assistant Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1922

ROBERTSON, STEWART, Assistant Professor of Business Administration, North Carolina State College, Raleigh, N. C. 1923

ROBINSON, EDW., Professor of Mechanical Engineering, University of Vermont, Burlington, Vt. 1899

ROBINSON, M. B., Director of Engineering, Evansville College, Evansville, Ind. 1915

ROBISON, GEORGE M., Assistant Professor of Mathematics, Trinity College, Durham, N. C. 1924

ROCKWELL, EDWARD H., Professor of Civil Engineering and Dean of Engineering, Rutgers College, New Brunswick, N. J. 1907

RODHOUSE, T. J., Professor of Hydraulic Engineering, University of Missouri, Columbia, Mo. 1904

RODMAN, W. S., Professor of Electrical Engineering, University of Virginia, University, Va. 1915

ROE, J. W., Professor of Industrial Engineering, New York University, New York City 1908

ROESCH, DANIEL, Associate Professor of Gas Engineering, Armour Institute of Technology, Chicago, Ill. 1922

ROGERS, C. E., Professor of Civil Engineering, Trinity College, Hartford, Conn. 1917

ROGERS, H. S., Professor of Hydraulic Engineering, Oregon State Agricultural College, Corvallis, Ore. 1922

Rohrer, A. L., Electrical Superintendent, Schenectady Works, General Electric Co., Schenectady, N. Y. 1911
1910 Rollins, E. B., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1912
1906 Rondinella, L. F., Head of Department of Drawing and Design, West Philadelphia High School for Boys, Philadelphia, Pa..... 1903
1924 Root, R. E., Professor of Mathematics, Postgraduate School, U. S. Naval Academy, Annapolis, Md. 1914
1919 Rorty, M. C., Assistant Vice-President, American Telephone and Telegraph Company, 195 Broadway, New York, N. Y. 1912
1922 Rosebrugh, T. R., Professor of Electrical Engineering, University of Toronto, Toronto Ontario, Canada. 1896
1894 Rosing, Anton S., Assistant Manager, Advertising and Publications, Portland Cement Association, 2210 Morse Ave., Chicago, Ill. 1911
1922 Rowell, L. D., Associate Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1910
1919 Rowley, F. B., Professor of Mechanical Engineering; Director, Experimental Engineering Laboratories, University of Minnesota, Minneapolis, Minn. 1910
1910 Rubenkoenig, Harry, Associate Professor of Railway Mechanical Engineering, Purdue University, LaFayette, Ind. 1920
1922 Rubey, H. K., Associate Professor of Civil Engineering, University of Washington, Seattle, Wash. 1917
1923 Running, Theodore R., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1918
1899 Rush, Harry S., Associate Professor of Mechanical Engineering, North Dakota Agricultural College, Agricultural College, N. D. 1919
1915 Russell, Frank A., Professor of Railway Engineering, University of Kansas, Lawrence, Kans. 1922
1924 Russell, W. B., Director, Franklin Union, Boston, Mass. 1903
1907 Ryan, H. J., Professor of Electrical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1901
1904 Ryan, W. T., Associate Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1911
1915 Sackett, R. L., Dean, School of Engineering, Pennsylvania State College, State College, Pa. 1923
1908 Sadler, H. C., Professor of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor, Mich. 1907
1922 Sanders, Isaac C., Assistant Professor of Physics, A. & M. College of Texas, College Station, Tex. 1923
1917 Sanders, William B., Instructor in Applied Mechanics, Purdue University, LaFayette, Ind. 1922
1922

SANDERS, W. H., Associate Professor of Agricultural Engineering, Kansas State Agricultural College, Manhattan, Kans. 1915

SARASON, SAMUEL D., Associate Professor of Civil Engineering, L. C. Smith College of Applied Science, Syracuse University, N. Y. 1918

SAUERS, JOHN A., 1018 4th Street, W. LaFayette, Ind. 1921

SAUNDERS, EDWARD W., JR., Assistant Professor of Civil Engineering, University of Virginia, University, Va. 1923

SAVANT, D. P., 401 William St., Atlanta, Ga. 1917

SAVILLE, THORNDIKE, Associate Professor of Hydraulic and Sanitary Engineering, University of North Carolina; Hydraulic Engineer, N. C. Geological Survey, Chapel Hill, N. C. 1915

SAYRE, M. F., Assistant Professor of Applied Mechanics, Union College, Schenectady, N. Y. 1917

SCHAD, BERNARD T., Professor of Civil Engineering, University of Dayton, Dayton, O. 1923

SCHEALER, S. R., Associate Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1911

SCHMIDT, EDWARD C., Professor of Railway Engineering, 101 Transportation Bldg., University of Illinois, Urbana, Ill. 1907

SCHNEIDER, HERMAN, Professor of Civil Engineering and Dean of the College of Engineering, University of Cincinnati, Cincinnati, O. 1903

SCHONE, FRANK P., Associate Professor of Descriptive Geometry and Drawing, State University of Iowa, Iowa City, Iowa 1924

SCHUERMAN, W. H., Dean of the School of Engineering and Professor of Applied Mechanics and Structural Engineering, Vanderbilt University, Nashville, Tenn. 1895

SCHWARZE, C. T., Associate Professor of Civil Engineering, New York University, University Heights, New York, N. Y. 1912

SCIPIO, L. A., Dean and Professor of Mechanical Engineering, Robert College, Constantinople, Turkey 1910

SCOATES, D., Professor of Agricultural Engineering, A. & M. College of Texas, College Station, Tex. 1923

SCOFIELD, HERBERT H., Professor of Materials, Cornell University, Ithaca, N. Y. 1922

SCOTT, C. F., Professor of Electrical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1904

SCOTT, J. H., Assistant Professor of English, State University of Iowa, Iowa City, Iowa 1923

SCOTT, LUTHER C., Associate Professor of Industrial Education, Toledo University, Toledo, O. 1919

1915 SCULLEN, A. J., Associate Professor of Civil Engineering, In charge of Dept. of Civil Engineering, Catholic University of America, Washington, D. C. 1916

1918 SEARS, S. F., Instructor in English, Massachusetts Institute of Technology, Cambridge, Mass. 1923

1921 SEARSON, J. W., Professor of English, University of Nebraska, Lincoln, Nebr. 1915

1923 SEATON, R. A., Dean, Division of Engineering, Kansas State Agricultural College, Manhattan, Kans. 1912

1917 SEAVER, H. L., Associate Professor of English, Massachusetts Institute of Technology, Cambridge, Mass. 1908

1915 SEAVEY, FRANK E., Professor of English, Tufts College, Tufts College, Mass. 1919

1917 SECHRIST, GILBERT H., Graduate Student, Massachusetts Institute of Technology, Cambridge, Mass. 1921

1923 SEELY, F. B., Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1913

1911 SEIDELL, THOMAS G., Associate Professor of Electrical Engineering, Georgia School of Technology, Atlanta, Ga. 1923

1907 SELVIDGE, ROBERT W., Professor of Industrial Education, University of Missouri, Columbia, Mo. 1922

1903 SETCHELL, HORACE E., Professor of Mechanical Engineering, University of Porto Rico, Mayaguez, P. R. 1922

1924 SEWARD, H. L., Associate Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn.. 1910

1895 SEXTON, F. H., President of the Nova Scotia Technical College, and Director of Technical Education for Nova Scotia, Halifax, Nova Scotia 1908

1912 SEYFERT, S. S., Associate Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1908

1910 SHAAD, G. C., Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1907

1923 SHANDS, E. H., Instructor in Mechanical Drawing and Woodwork, North Carolina State College, Raleigh, N. C. 1923

1922 SHANE, ADOLPH, Professor and Head, Trades and Industries Dept., Iowa State College, Ames, Ia. 1907

1904 SHANK, JACOB RALPH, Assistant Professor of Civil Engineering, The Ohio State University, Columbus, O. 1919

1923 SHATTUCK, E. L., Professor of Applied Mechanics and Thermodynamics, Louisiana Industrial Institute, Ruston, La. 1914

1919 SHATTUCK, H. B., Associate Professor of Railroad Engineering, Pennsylvania State College, State College, Pa. 1906

SHAW, EDWIN A., Assistant Professor of Education, Graduate School of Education, Harvard University, Cambridge, Mass. 1921

SHAW, HUBERT DE GROFFEUR, Assistant Professor of Chemistry, Asheville University, Box 304, Newton, N. C. 1923

SHAW, H. B., Director, Engineering Experiment Station, North Carolina State College, Raleigh, N. C. 1907

SHIBATA, KEISAKU, Professor of Civil Engineering, Tokyo Imperial University, Tokyo, Japan 1922

SHELDON, S. R., Dean and Professor of Electrical Engineering, Chiao-Tung-pu, Nanyang University, Shanghai, China..... 1914

SHEPARDSON, G. D., Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1895

SHEPARDSON, J. E., Assistant Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1917

SHEPPARD, H. S., Dept. of Development & Research, American Telephone & Telegraph Co., 195 Broadway, New York, N. Y..... 1914

SHERMAN, C. E., Professor of Civil Engineering, Ohio State University, Columbus, Ohio 1907

SHERWOOD, G. F., Associate Professor of Mathematics, University of California, Southern Branch, Los Angles, Calif. 1923

SHIPLEY, S. C., Professor of Mechanical Engineering, and Superintendent of Shops, University of Minnesota, Minneapolis, Min. 1908

SHOOP, C. F., Associate Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1906

SHORT, R. L., Principal of High Schools, 3921 N. Newstead, St., Louis, Mo. 1902

SHOWMAN, H. M., Assistant Professor of Mathematics, University of Southern California, Los Angeles, Calif. 1923

SHUMAKER, ROSS E., Associate Professor of Architecture, Universty of North Carolina, Raleigh, N. C. 1923

SIBLEY, F. H., Dean, College of Engineering, University of Nevada, Reno, Nev. 1910

SILER, RODERICK W., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

SILVEY, O. W., Professor of Physics, A. & M. College of Texas, College Station, Tex. 1917

SIMS, STUART, Professor and Head of Civil Engineering, School of Engineering, Oregon State Agricultural College, Corvallis, Ore. 1919

SJOGERN, OSCAR W., Professor of Agricultural Engineering, Chairman of the Dept., College of Agriculture, Lincoln, Nebr. 1917

SKELTON, R. H., Assistant Professor of Mathematics and Surveying, Allegheny College, Meadville, Pa. 1914

SKILES, W. V., Professor of Mathematics, Georgia School of Technology, Atlanta, Ga. 1919

1923 SLAYMAKER, P. K., Professor of Machine Design, University of Nebraska, Lincoln, Nebr. 1910

1907 SLEESMAN, L. C., Professor of Chemical Engineering, Ohio Northern University, Ada, O. 1917

1922 SLICHTER, W. I., Professor of Electrical Engineering, Columbia University, New York, N. Y. 1911

1914 SLOANE, R. C., Assistant Professor of Civil Engineering, The Ohio State University, Columbus, O. 1923

1895 SLOBIN, HERMAN L., Professor and Head of Department of Mathematics, University of New Hampshire, Durham, N. H. 1923

1917 SLOCUM, R. H., Professor of Civil Engineering, North Dakota Agricultural College, Agricultural College, N. D. 1903

1914 SLUSS, A. H., Associate Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1915

1907 SMAY, JOE E., Instructor in Applied Mechanics, University of Nebraska, Lincoln, Nebr. 1924

1923 SMITH, A. W., Professor of Physics, The Ohio State University, Columbus, O. 1923

1908 SMITH, H. B., Professor of Electrical Engineering, and Director of Electrical Engineering Dept., Worcester Polytechnic Institute, Worcester, Mass. 1898

1906 SMITH, H. S. S., 205 Wallace St., Stroudsburg, Pa. 1894

1902 SMITH, HARRY W., Professor and Head of Department of Economics, University of New Hampshire, Durham, N. H. 1923

1923 SMITH, J. ARCHY, Professor of Mathematics, John B. Stetson University, DeLand, Fla. 1924

1923 SMITH, J. HAMMOND, Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1910

1910 SMITH, M. VAN G., Professor of Mechanical Engineering, University of Delaware, Newark, Del. 1922

1922 SMITH, RALPH A., Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1922

1917 SMITH, RICHARD R., Manager, College Department, The Macmillan Company, 66 Fifth Ave., New York, N. Y. 1914

1919 SMITH, ROBT. FRANKLIN, Professor of Mathematics, A. & M. College of Texas, College Station, Tex. 1923

1917 SMITH, THOMAS D., Box 364, Newark, Dela. 1920

1914 SMULL, T. J., JR., Executive Secretary, Ohio Northern University, Ada, O. 1907

1919 SMYTH, H. L., Professor of Mining and Metallurgy and Director of the Mining and Metallurgical Laboratories, Harvard University, Cambridge, Mass. 1907

SNADER, DAVID L., Professor of Civil Engineering, South Dakota State College, Brookings, S. D. 1918

SNAVELY, T. R., Associate Professor of Economics, University of Virginia, University, Va. 1916
SNIFFIN, EDWIN H., Manager, Power Dept., Westinghouse E. & M. Co., East Pittsburgh, Pa. 1923
SNOW, CHAS. H., Dean, College of Engineering and Professor of Civil Engineering, New York University, New York, N. Y... 1895
SNOW, JOHN E., Associate Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1921
SOBEY, ALBERT, Director of Education, Industrial Mutual Association and Association of Executives' Clubs, Flint, Mich. 1923
SORENSEN, R. W., Professor of Electrical Engineering, California Institute of Technology, Pasadena, Calif. 1912
SPAULDING, FRANK E., Sterling Professor of School Administration, Yale University Graduate School, New Haven, Conn. 1922
SPEIRS, CHAS. E., Vice-President, D. Van Nostrand Company, Publishers, 8 Warren Street, New York, N. Y. 1914
SPENCER, F. A., Professor of Electrical Engineering in charge of Dept., Norwich University, Northfield, Vt. 1920
SPENGLER, HARRY T., Professor of Railroad Engineering, LaFayette College, Easton, Pa. 1920
SPERR, F. W., Professor of Civil and Mining Engineering, Michigan College of Mines, Houghton, Mich. 1896
SPINNEY, L. B., Professor of Physics, Iowa State College, Ames, Ia. 1899
SPOFFORD, C. M., Hayward Professor of Civil Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1901
SPOONER, H. J., Late Director and Professor of Mechanical and Civil Engineering, Polytechnic School of Engineering, 5 St. Georges Terrace, Regents Park, London, England 1912
SPRAGUE, EMBERT H., Associate Professor of Civil Engineering, University of Maine, Orono, Me. 1918
SPRAGUE, F. J., President, Sprague Safety Control and Signal Corporation, 421 Canal St., New York, N. Y. 1911
SPRARAGEN, LOUIS, Instructor in Electrical Engineering, University of Missouri, Columbia, Mo. 1924
SPRINGER, F. W., Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn..... 1896
SPRINGER, G. P., Drexel Institute, Philadelphia, Pa. 1917
STANFORD, J. V., Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1907
STANLEY, WM. E., Resident Engineer South Charleston Sewer Construction, Charleston, W. Va. 1915
STANSFIELD, ALFRED, Birks Professor of Metallurgy, McGill University, Montreal, Canada 1921

STANTON, CHAS. B., Associate Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1915
STANTON, WILLIAM L., Box D, Brown City, Mich. 1923
STARBUCK, ARWARD, Assistant Professor of English, Iowa State College, Ames, Ia. 1919
STARR, CHARLES J., Assistant Supt., Machine Laboratory, University of Illinois, Urbana, Ill. 1921
STAVELY, EARL B., Associate Professor of Electrical Engineering, The Pennsylvania State College, State College, Pa. 1920
STEELE, J. N., Instructor in Foundry Work, Dickinson High School, Jersey City, N. J. 1912
STEINBERG, SAMUEL S., Professor of Civil Engineering, University of Maryland, College Park, Md. 1920
STEINMAN, D. B., Consulting Engineer, 25 Church St., New York, N. Y. 1910
STELZNER, W. B., Professor of Electrical Engineering, University of Arkansas, Fayetteville, Ark. 1914
STEPHENSON, S. A., JR., Associate Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1910
STEVENS, A. C., Transformer Sales Dept., General Electric Co., Pittsfield, Mass. 1912
STEVENS, F. H., Assistant Professor Engineering Mechanics, College of Engineering, University of Michigan, Ann Arbor, Mich. 1915
STEWARD, R. K., Professor of Drawing and Design, Michigan Agricultural College, East Lansing, Mich. 1910
STEWART, G. W., Professor of Physics, State University of Iowa, Iowa City, Ia. 1910
STEWART, L. B., Professor of Surveying and Geodesy, Faculty of Applied Science and Engineering, Toronto University, Toronto, Ontario, Canada 1897
STEWART, O. M., Professor of Physics, University of Missouri, Columbia, Mo. 1909
STEWART, V. T., Professor of Chemical Engineering, Newark Technical School, Newark, N. J. 1923
STILLWELL, L. B., Consulting Engineer, 90 West Street, New York, N. Y. 1912
STIMPSON, EDWIN F., Assistant Professor of Physics, University of Kansas, Lawrence, Kans. 1922
STOCKER, GEORGE P., Professor of Civil Engineering, University of Arkansas, Fayetteville, Ark. 1921
STOCKWELL, F. C., Associate Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914
STOLWORTHY, EDWARD H., Instructor in Mechanical Engineering, University of New Hampshire, Durham, N. H. 1923

STONE, CHAS. W., Manager of Lighting Dept., General Electric Co., Schenectady, N. Y. 1911
STONE, E. A., Consulting Engineer, Windsor, Nova Scotia 1907
STONE, H. E., Dean of Men, West Virginia University, Morgantown, W. Va. 1924
STONE, JULIUS F., Care of Seagrave Co., Columbus, O. 1913
STONE, OLIVER M., Instructor in Descriptive Geometry and Drawing, Case School of Applied Science, Cleveland, O. 1923
STOUGHTON, BRADLEY, Professor of Metallurgy, Lehigh University, Bethlehem, Pa. 1923
STOUT, O. V. P., President and General Manager, General Farming Corp., Lincoln, Nebr. 1894
STOVALL, S. C., JR., Instructor, Georgia School of Technology, Atlanta, Ga. 1923
STRAW, J. B., Research Engineer, 2301 Market St., Philadelphia, Pa. 1923
STRONG, ALBERT J., Acting Professor of Drawing and Mechanic Arts, University of Florida, Gainesville, Fla. 1913
STUART, M. C., Professor of Mechanical and Marine Engineering, U. S. Naval Post-Graduate School, Annapolis, Md. 1921
STYER, CHARLES A., Research Engineer, Research Laboratory, Westinghouse E. & M. Co., East Pittsburgh, Pa. 1918
SULLIVAN, GEO. L., Dean, College of Engineering, University of Santa Clara, Santa Clara, Calif. 1912
SUMMEY, GEORGE JR., Professor of English, A. & M. College of Texas, College Station, Tex. 1919
SUTHERLAND, HALE, Assistant Professor of Structural Engineering, Massachusetts Institute of Technology, Cambridge, Mass. .. 1914
SUTTIE, R. H., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1912
SVENSEN, C. L., Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1900
SWAIM, VERNE F., Head, Department of Physics, Bradley Polytechnic Institute, Peoria, Ill. 1919
SWAIN, G. F., Professor of Civil Engineering, Harvard University, Cambridge, Mass. 1893
SWEETSER, E. O., Associate Professor of Civil Engineering, Washington University, St. Louis, Mo. 1910
SWEETSER, ROBERT C., Professor of Analytical Chemistry, Worcester Polytechnic Institute, Worcester, Mass. 1922
SWARTZEL, KARL D., Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. 1922
SWEET, A. T., Instructor in Metallurgy and Ore Dressing, Michigan College of Mines, Houghton, Mich. 1922

SWEETSER, W. J., Professor of Mechanical Engineering, University of Maine, Orono, Me. 1910

SYPHERD, W. O., Professor of English, University of Delaware, Newark, Del. 1914

TAIT, RALPH S., Assistant Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1921

TALBOT, ARTHUR N., Professor of Municipal and Sanitary Engineering, and in charge of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1893

TALBOT, H. P., Professor of Inorganic Chemistry, Dean of Students, Massachusetts Institute of Techonolgy, Cambridge, Mass. 1902

TAPPAN, F. G., Director, School of Electrical Engineering, University of Oklahoma, Norman, Okla. 1921

TAYLOR, HERBERT F., Assistant Professor of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1922

TAYLOR, O. C., Dean of Graduate School, North Carolina State College, Raleigh, N. C. 1923

TAYLOR, T. U., Professor of Civil Engineering and Dean of Engineering Department, University of Texas, Austin, Texas 1902

TAYLOR, WARD H., Instructor in Mathematics, University of Arkansas, Fayetteville, Ark. 1921

TAYLOR, W. C., Associate Professor of Civil Engineering, Union University, Schenectady, N. Y. 1913

TAYLOR, WM. E., Professor of Applied Mathematics and Head of Dept., College of Applied Science, Syracuse University, Syracuse, N. Y. 1913

TEAGUE, WILLIAM L., 1115 Rose Ave., Wilkinsburg, Pa. 1922

TEEPLE, PERRY M., Associate Professor of Civil Engineering, University of South Carolina, Columbia, S. C. 1922

TEJIDOR, JOSE F., Ingeniero Civil, Institute Provincial, Virtudos 92, Pinar Del Rio, S. A. 1924

TERRELL, DANIEL V., Professor of Civil Engineering, University of Kentucky, Lexington, Ky. 1917

THALER, J. A., 901 3rd Avenue, Bozeman, Mont. 1901

THAXTON, GUY W., Assistant Professor of Electrical Engineering, Georgia School of Technology, Atlanta, Ga. 1923

THOMAS, C. F., Associate Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1909

THOMAS, CHAS. W., Associate Professor of Descriptive Geometry and Mechanical Drawing, Case School of Applied Science, Cleveland, O. 1912

THOMAS, EVAN, Professor of Mechanics and Mathematics, University of Vermont, Burlington, Vt. 1908

THOMAS, FRANKLIN, Professor of Civil Engineering, California Institute of Technology, Pasadena, Calif. 1914

THOMAS, GEO. B., Educational Director, Engineering Department, Western Electric Co., Inc., 463 West St., New York, N. Y. 1911

THOMAS, H. A., Professor of Theoretical Hydraulics, and Sanitary Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1913

THOMAS, R. G., Professor Emeritus of Mathematics and Engineering, The Citadel, The Military College of S. C.; Engineer in charge of Records, *Editor*, S. C. Highway Bulletin, Columbia, S. C. 1894

THOMAS, R. P., Assistant Professor of Physics and Engineering Drawing, Wittenberg College, Springfield, O. 1914

THOMAS, WILLIAM H., Professor of English, A. & M. College of Texas, College Station, Tex. 1923

THOMPSON, FRANK F., Professor of Electrical Engineering, Rutgers College, New Brunswick, N. J. 1909

THOMPSON, GORDON, Professor of Electrical Engineering, Nanyang University, Shanghai, China 1924

THOMPSON, G. S., Consulting Civil Engineer, 693 2nd Ave., Troy, N. Y. 1907

THOMPSON, JAMES S., Secretary, McGraw-Hill Book Co., 370 7th Ave., New York, N. Y. 1911

THOMPSON, KARL O., Associate Professor of English, Case School of Applied Science, Cleveland, O. 1919

THOMPSON, LYMAN H., McGraw-Hill Book Co., 370 Seventh Avenue, New York City 1924

THOMSON, FRANCIS A., Dean, School of Mines, University of Idaho, Moscow, Ida. 1915

THOMSON, R. D., Industrial Engineer, 411 Broadway, East Lynn, Mass. 1922

THORNBURG, C. L., Professor of Mathematics and Astronomy, Lehigh University, Bethlehem, Pa. 1894

THORNTON, W. M., Professor of Applied Mathematics and Dean of the Department of Engineering, University of Virginia, University, Va. 1916

THOROGOOD, BRACKETT K., Educational Counsel, Franklin Union, Boston, Mass. 1923

THOROUGHGOOD, R. W., 46 Delaware Ave., Newark, Del. 1913

THURSTONE, L. L., Bureau of Personnel Administration, 26 Jackson St., Washington, D. C. 1919

TILDEN, C. J., Strathcona Professor of Engineering Mechanics, Yale University, New Haven, Conn. 1913

1914 TILGHMAN, HARRISON, Major, Care of Col. Oswald Tilghman, Easton, Md. 1919

1911 TIMBIE, W. H., Associate Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1908

1913 TITSWORTH, A. A., Professor of Mathematics, Rutgers College and N. J. College for Women, New Brunswick, N. J. 1903

TODD, M. E., Assistant Professor of Electric Power Engineering, University of Minnesota, Minneapolis, Minn. 1913

TOMPKINS, FREDERICK N., Instructor in Electrical Engineering, Brown University, Providence, R. I. 1922

1894 TOWLE, W. M., Emeritus Professor of Industrial Engineering, Clarkson College of Technology, Enosburg Falls, Vt. 1895

1914 TRACY, J. C., Professor of Civil Engineering, Yale University, New Haven, Conn. 1907

1923 TRAILL, J. J., With Hydro Electric Power Comm., of Ontario, Toronto, Ont., Canada 1912

1909 TRAUTMAN, WILLIAM DANIEL, Associate Professor of Modern Languages, Case School of Applied Science, Cleveland, O. 1920

1924 TRIMBLE, RALPH M., Instructor in Civil Engineering, University of North Carolina, Chapel Hill, N. C. 1924

1907 TRINKS, W., Professor and Head of Department of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa... 1917

1911 TRUEBLOOD, RALPH B., Professor of Practical Mechanics, Purdue University, LaFayette, Ind. 1922

1919 TUCKER, CARLTON E., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

1924 TUCKER, E. N., Instructor in Mathematics, Virginia Episcopal School, Lynchburg, Va. 1915

1915 TUDBURY, CHESTER W., Secretary of Faculty and Registrar, Wentworth Institute, Boston, Mass. 1921

1922 TURLEY, O. J., Consulting Geological Engineer, 945 Munsey Bldg., Washington, D. C. 1912

1894 TURNBULL, W. D., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1917

TURNBULL, WILLIAM F., Instructor in Mechanical Engineering, New York University, New York City 1920

1916 TURNEAURE, F. E., Dean of the College of Engineering, University of Wisconsin, Madison, Wis. 1894

1923 1913 TURNER, C. A. P., Engineer, 2675 Lake of Isles Blvd., Minneapolis, Minn. 1913

1919 TURNER, D. L., Consulting Engineer, Transit Commission, New York City, 9 East 39th St., New York, N. Y. 1898

1913 TURNER, W. P., Professor of Practical Mechanics, Purdue University, LaFayette, Ind. 1900

TUTHILL, JOHN K., Assistant Professor of Railway Electrical Engineering, University of Illinois, Urbana, Ill. 1922

TYLER, H. G., Associate Professor of Mechanical Engineering, Director, Evening Engineering Division, New York University, University Heights, New York, N. Y. 1915

TYLER, H. W., Walker Professor and Head, Dept. of Mathematics, Massachusetts Institute of Technology, Cambridge, Mass. 1894

UNDERHILL, JAMES, Associate Professor of Mining, Colorado School of Mines, Golden, Colo. 1921

UNDERWOOD, P. H., Professor of Topographic and Geodetic Engineering, Cornell University, Ithaca, N. Y. 1922

UPSON, W. L., Professor of Electrical Engineering, Washington University, St. Louis, Mo. 1910

VALLAS, MINER H., Instructor in Electrical Engineering, Tulane University, New Orleans, La. 1922

VAN BUSKIRK, H. C., Professor of Mathematics, California Institute of Technology, Pasadena, Calif. 1911

VANDERBEEK, H. A., Principal, Wusih Technical School, Wusih, Kiangsu, China 1915

VAN HAGAN, L. F., Professor of Railway Engineering, University of Wisconsin, Madison, Wis. 1912

VANLEER, BLAKE R., Assistant Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1923

VAN NESS, L. G., Consulting Electrical Engineer, 1431 Union Trust Bldg., Cincinnati, O. 1907

VAN ORNUM, J. L., Professor of Civil Engineering, Washington University, St. Louis, Mo. 1895

VARNEY, E. A., Instructor in Applied Mechanics and Structural Design, Wentworth Institute, Boston, Mass. 1921

VAUGHN, F. A., Vice-President, School of Engineering of Milwaukee, Milwaukee, Wis. 1918

VAUGHAN, L. L., Professor of Mechanical Engineering, North Carolina State College of Agriculture and Engineering, State College Station, Raleigh, N. C. 1912

VEAL, C. B., Consulting Engineer, 250 West 54th St., New York City. 1910

VEAZEY, WILLIAM R., Associate Professor of Chemistry, Case School of Applied Science, Cleveland, O. 1922

VEDDER, H. K., Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1894

VEDDER, J. N., Professor of Thermodynamics, Union College, Schenectady, N. Y. 1910

VEZEY, EDWARD E., Acting Associate Professor of Physics, A. & M. College of Texas, College Station, Tex. 1923
VOGEL, FRANK, Professor of German, Massachusetts Institute of Technology, Cambridge, Mass. 1923
VOLKMER, ALBERT W., Instructor in Drawing and Descriptive Geometry, State University of Iowa, Iowa City. Ia. 1921
VOSE, F. H., Professor of Mechanical Engineering, in charge of the department, Case School of Applied Science, Cleveland, O.. 1907
VOSKAMP, JOHN A., Instructor in Civil Engineering, New York University, University Heights, N. Y. 1918
VOSS, W. C., Head, Dept. of Architectural Construction, Wentworth Institute, Boston, Mass. 1921
VOTEY, J. W., Professor of Civil Engineering and Dean of the College of Engineering, University of Vermont, Burlington, Vt. 1902
WADDELL, J. A. L., Consulting Engineer, 35 Nassau St., Room 1503, New York, N. Y. 1893
WADSWORTH, F. L. O., Consulting and Advisory Engineer, Pittsburgh, Pa. 1911
WADSWORTH, J. E., Division Engineer, American Bridge Co., 22 Morsemere Place, Yonkers, N. Y. 1895
WAGNER, F. C., President, Rose Polytechnic Institute, Terre Haute, Ind. 1911
WAGNER, SAMUEL T., Chief Engineer, The Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia, Pa. 1911
WAIT, J. C., Attorney and Counsellor-at-law, Engineering Jurisprudence, Woolworth Bldg., 233 Broadway, New York, N. Y. 1907
WAITE, E. B., Practicing Engineer, Westboro, Mass. 1914
WALDO, W. G., Consulting Engineer, 205 3rd St., S. E., Washington, D. C. 1917
WALES, R. L., Professor of Mechanical Engineering and Dean of Engineering Depts., Rhode Island State College, Kingston, R. I. 1914
WALKER, AMASA, Manager of Educational Dept., Longmans, Green & Co.. 55 Fifth Ave., New York, N. Y. 1914
WALKER, CHAS. L., Professor of Sanitary Engineering, College of Engineering, Cornell University, Ithaca, N. Y. 1910
WALKER, E. D., Professor of Hydraulic and Sanitary Engineering, Pennsylvania State College, State College, Pa. 1895
WALKER, E. S., Assistant Professor of Mechanical Engineering, University of Florida, Gainesville, Fla. 1910
WALKER, HARRY B., Professor of Agricultural Engineering, Kansas State Agricultural College, Manhattan, Kans. 1921

WALKER, P. F., Dean of the School of Engineering, University of Kansas, Lawrence, Kans. 1907
WALLACE, LAWRENCE W., Executive Secretary, American Engineering Council, 26 Jackson Place, Washington, D. C. 1924
WALLER, O. L., Vice-President, Dean, College of Science and Arts, Head of Dept. Civil Engineering, State College of Washington, Pullman, Wash. 1911
WALTERS, RAYMOND, Dean of Swarthmore College, Swarthmore, Pa. 1921
WALTHER, JOHN T., Professor of Electrical Engineering, Municipal University of Akron, Akron, Ohio 1924
WALSH, MATTHEW, University of Notre Dame, Notre Dame, Ind. .. 1922
WARD, CLAYTON N., Assistant Professor of Hydraulic Engineering, University of Wisconsin, Madison, Wis. 1920
WARD, SAMUEL, Technical Instructor and Industrial Engineer, 2648 Canterbury Road, Cleveland Heights, O. 1917
WARREN, CHARLES H., Professor of Geology, Dean, Sheffield Scientific School, Yale University, New Haven, Conn. 1923
WASSALL, ALLEN DEXTER, Assistant Professor of Electrical Engineering, New Hampshire College, Durham, N. H. 1923
WATERMAN, EARLE L., Associate Professor of Sanitary Engineering, State University of Iowa, Iowa City, Iowa..... 1923
WATERMAN, I. F., Instructor in Civil Engineering, Oregon Agricultural College, Corvallis, Ore. 1916
WATERS, E. O., Assistant Professor of Machine Design, Sheffield Scientific School, Yale University, New Haven, Conn. 1914
WATSON, ARTHUR E., Associate Professor of Electrical Engineering, Brown University, Providence, R. I. 1924
WATSON, J. W., Assistant Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1910
WATTS, A. S., Professor of Ceramic Engineering, The Ohio State University, Columbus, O. 1923
WATTS, C. W., Professor of Mathematics, The Virginia Military Institute, Lexington, Va. 1911
WATTS, EARLE F., 909 Hancock St., Wollaston, Mass. 1923
WEAVER, FREDERIC N., Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1924
WEAVER, JAMES H., Assistant Professor of Mathematics, The Ohio State University, Columbus, Ohio..... 1923
WEAVER, LEON H. A., Publicity Manager, The Superheater Co., N. Y. C. 1914
WEBB, H. E., Head of the Department of Mathematics, Central Commercial and Manual Training High School, Newark, N. J.. 1912
WEBBER, W. PAUL, Professor of Mathematics 1921

WEBER, JOHN, Associate Professor of Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

WEED, JOHN M., Instructor in English, The Ohio State University, Columbus, O. 1923

WEIDA, FRANK M., Instructor in Mathematics, State University of Iowa, Iowa City, Ia. 1921

WEIGEL, PAUL, Acting Head, Department of Architecture, Kansas State Agricultural College, Manhattan, Kans. 1923

WEIL, JOSEPH, Assistant Professor of Physics and Electrical Engineering, University of Florida, Gainesville, Fla. 1923

WEILAND, W. F., Assistant Professor of Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1921

WEINBACH, M. P., Associate Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915

WEISS, CAMILLO, Structural Engineer, Bridge and Fabrication Dept., Bethlehem Steel Co., 1213 Russell Ave., Bethlehem, Pa. 1917

WELCH, FREDERIC W., Assistant Professor of Civil Engineering, State College of Washington, Pullman, Wash. 1921

WELD, FRED F., 6150 Arcade Building, Seattle, Wash. 1922

WELLS, EDGAR H., President; Professor of Geology and Mineralogy, New Mexico School of Mines, Socorro, N. M. 1923

WENDT, ROBERT E., Instructor in Foundry, Purdue University, La-Fayette, Ind. 1922

WENDT, W. B., Professor of Civil Engineering, South Dakota State School of Mines, Rapid City, S. D. 1908

WENK, MORRIS, Assistant Professor of Mechanical Engineering, Oregon State Agricultural College, Corvallis, Ore. 1921

WEST, FRANK LESLIE, Professor of Engineering, Mount Allison University, Sackville N. B., Canada 1923

WEST, G. ALVIN, Training Assistant, U. S. Veterans' Bureau, Port Deposit, Md. 1923

WESTON, EDW., President, The Weston Electrical Instrument Co., Waverly Park, Newark, N. J. 1911

WHAREN, GEORGE B., Professor of Mechanical Engineering, Head of Dept., University of North Dakota, Grand Forks, N. D. 1922

WHARTON, JAMES R., Chairman, Dept. of Mechanical Engineering, University of Missouri, Columbia, Mo. 1919

WHEELER, F. B., Instructor in Wood Shop, North Carolina State College, Raleigh, N. C. 1923

WHEELER, L. P., Assistant Professor of Physics, Yale University, New Haven, Conn. 1908

WHEELER, NATHANIEL E., Professor of Physics, Colby College, Waterville, Me. 1921

WHIPPLE, G. C., Gordon McKay Professor of Sanitary Engineering, Harvard University, Cambridge, Mass. 1896

WHITE, ALBERT E., Professor of Metallurgical Engineering, and Director, Dept. of Engineering Research, University of Michigan, Ann Arbor, Mich. 1922

WHITE, A. E., Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1910

WHITE, A. H., Professor of Chemical Engineering, University of Michigan, Ann Arbor, Mich. 1920

WHITE, CHAS. H. M., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

WHITE, C. L., Instructor in Civil Engineering and Freshman Advisor, University of Washington, Seattle, Wash. 1923

WHITE, G. C., President, Gilbert C. White Co., Consulting Engineers, 512 Morehead Ave., Durham, N. C. 1923

WHITE, J. M., Supervising Architect, Supt. of Business Operations, University of Illinois, Urbana, Ill. 1900

WHITE, LEON V., Assistant Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1923

WHITEHEAD, J. B., Dean, Faculty of Engineering and Professor of Electrical Engineering, The Johns Hopkins University, Baltimore, Md. 1913

WHITEHEAD, L. W., Assistant Professor of Civil Engineering, The Pennsylvania State College, State College, Pa. 1918

WHITED, E. WILLIS, Instructor in Co-Operative Work and Industrial Engineering, University of Pittsburgh, Pittsburgh, Pa. 1923

WHITMORE, R. D., I Pembroke St., New Rochelle, N. Y. 1917

WHITNEY, RICH D., Professor and Head, Dept. of Electrical Engineering, Syracuse University, Syracuse, N. Y. 1923

WHITTEMORE, JEANNE S., Professor of English, University of Porto Rico, Mayaguez, P. R. 1923

WICKENDEN, WM. E., Director of Investigations, Society for the Promotion of Engineering Education, Room 1607, 33 West 39th St., New York, N. Y. 1912

WILCOX, HUGH B., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

WILEY, RALPH B., Professor of Sanitary Engineering, Purdue University, LaFayette, Ind. 1920

WILEY, W. O., Publisher of Scientific Books, Treasurer, John Wiley & Sons, Inc., 440 Fourth Ave., New York, N. Y. 1904

WILLARD, ARTHUR C., Professor, Heating and Ventilation, Head, Dept. Mechanical Engineering, University of Illinois, Urbana, Ill. 1922

WILLIAMS, ARTHUR S., Instructor in Chemistry, North Carolina State College, Raleigh, N. C. 1924
WILLIAMS, C. C., Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1909
WILLIAMS, O. E., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1910
WILLIAMS, S. N., Professor Emeritus of Civil and Sanitary Engineering, Cornell College, 734 N. Fairoaks Ave., Oak Park, Ill. 1893
WILLIAMS, W. S., Professor of Topographical Engineering, University of Missouri, Columbia, Mo. 1913
WILLIAMSON, CHARLES O., Professor of Applied Mathematics, College of Wooster, Wooster, O. 1919
WILLIAMSON, C. S., Professor of Industrial Chemistry, Tulane University, New Orleans, La. 1922
WILLIS, A. J., Structural Engineer, 637 7th Ave., Bethlehem, Pa. 1912
WILLISTON, ARTHUR L., Principal, Wentworth Institute, Boston, Mass. 1897
WILLMARTH, ELMER H., Assistant Professor of Engineering Problems, Iowa State College, Ames, Iowa 1922
WILLSON, F. G., Head of Dept. of Applied Electricity, Wentworth Institute, Boston, Mass. 1912
WILLSON, F. N., Professor of Graphics, Princeton University, Princeton, N. J. 1913
WILMORE, J. J., Dean, School of Engineering, and Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1894
WILMOT, SYDNEY, Assistant Professor of Civil Engineering, Brown University, Providence, R. I. 1919
WILSON, A. M., Professor of Electrical Engineering, University of Cincinnati, Cincinnati, O. 1907
WILSON, GEORGE BURR, Engineer, Aluminum Co. of America, Aluminum Club, New Kensington, Pa. 1923
WILSON, GEO. S., Associate Professor of Mechanical Engineering, University of Washington, Seattle, Wash. 1912
WILSON, L. A., Mechanical Engineering Department, University of Arkansas, Fayetteville, Arkansas..... 1923
WILSON, W. L., Professor of Railroad Engineering, Lehigh University, Bethlehem, Pa. 1909
WILSON, WILBUR M., Research Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1914
WING, FRANCIS H., Supervisor of Industrial Education, Buffalo Public Schools, Buffalo, N. Y. 1919
WINSLOW, A. E., Dean of Civil Engineering Dept., Norwich University, Northfield, Vt. 1914

WINSOR, ARTHUR S., Assistant Professor of Mathematics, University of North Carolina, Chapel Hill, N. C. 1921
WIREN, ALEXIS R., General Secretary, Russian Students Christian Association, 347 Madison Ave., New York City. 1921
WISLER, C. O., Associate Professor of Hydraulic Engineering, University of Michigan, Ann Arbor, Mich. 1920
WITHAM, R. L., Electrical Engineer, Sperry Gyroscope Co., Manhattan Bridge Plaza, Brooklyn, N. Y. 1914
WITHERS, WM. A., Head, Professor of Chemistry, North Carolina State College, Raleigh, N. C. 1923
WITHEY, M. O., Professor of Mechanics, University of Wisconsin, Madison, Wis. 1910
WITHROW, JAMES R., Professor of Chemistry, Ohio State University, Columbus, O. 1907
WITTIG, GUSTAV F., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1910
WOHLENBERG, W. J., Assistant Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1917
WOLFARD, N. ELLSWORTH, Assistant Professor of Civil Engineering, University of Oklahoma, Norman, Okla. 1921
WOLFE, W. S., Chief Engineer, Gabriel Steel Co., 2441 Bellevue Ave., Detroit, Mich. 1916
WOOD, A. J., Head, Dept., Mechanical Engineering, Pennsylvania State College, State College, Pa. 1898
WOOD, E. H., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1910
WOOD, K. D., Instructor in Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1923
WOODMAN, J. E., Professor of Geology and Director of Geological Museum, New York University, University Heights, New York, N. Y. 1912
WOODROW, JAY W., Professor of Physics, Iowa State College, Ames, Ia. 1918
WOODS, HARLAND C., Assistant Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1910
WOODWARD, R. S., Ex-President, Carnegie Institution of Washington, Washington, D. C. 1893
WOODWARD, S. M., Professor of Mechanics and Hydraulics, State University of Iowa, Iowa City, Ia. 1910
WOOSTER, L. F., Professor of Applied Electricity, Oregon Agricultural College, Corvallis, Ore. 1912
WORK, L. T., Instructor in Chemical Engineering, Columbia University, New York City..... 1923

WORK, WILLIAM R., Professor of Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1921

WRIGHT, A. S., Professor of Modern Languages, Case School of Applied Science, Cleveland, O. 1907

WRIGHT, C. A., Professor of Electrical Engineering, The Ohio State University, Columbus, Ohio 1916

WRIGHT, EDWIN, H., Associate Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1921

WROTH, BENJAMIN B., Associate Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. 1924

WU, NG CHEE, Professor of Railroad Engineering, Tangshan University, Tangshan, North China..... 1923

WUNDERLEE, JAMES L., Instructor in Practical Mechanics, Purdue University, LaFayette, Ind. 1922

WYMAN, F. T., President, Packard Electric Co., Ltd., St. Catherines, Ont. 1912

YATES, CLARENCE C., Associate Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1923

YATES, J. A., Head, Dept. of Chemical and Science, Kansas State Teachers College, Pittsburg, Kans. 1924

YOE, JOHN HOWE, Associate Professor of Chemistry, University of Virginia, University, Va. 1920

YOUNG, C. M., Professor Head of Mining Engineering, University of Kansas, Lawrence, Kans. 1907

YOUNG, C. R., Associate Professor of Structural Engineering, University of Toronto, Toronto, Ont. 1914

YOUNG, E. G., Professor of Railway Mechanical Engineering, Nanyang University, Shanghai, China..... 1922

YOUNG, G. A., Professor and Head of the Department of Mechanical Engineering, Director, Mechanical Engineering Laboratories, Purdue University, LaFayette, Ind. 1907

YOUNG, L. E., Manager, Steam Heating Utility, Union Electric Co., Room 805, St. Louis, Mo. 1910

ZELNER, OTTO SAMUEL, Assistant Professor of Surveying, University of Minnesota, Minneapolis, Minn. 1923

ZIMMER, ALBERT R., Assistant Professor of Electrical Engineering, University of Toronto, Toronto, Ont., Canada..... 1923

ZIWET, ALEXANDER, Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1897

ZOWSKI-ZWIERZCHOWSKI, S. J., Professor of Hydraulic Engineering, Warsaw Polytechnic School, Polytechnika Warszawska, Warsaw, Poland 1910

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LIST OF MEMBERS.

ADDENDA

ARNOLD, JAMES L., Professor of Electrical Engineering, New York University, New York City 1924

BROOKES, JOHN F., Professor of Civil Engineering, University of Oklahoma, Norman, Okla. 1924

CHURCH, LEONARD H., Instructor in Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1924

CRANE, THEODORE, Associate Professor of Building Construction, Sheffield Scientific School, Yale University, New Haven, Conn. 1924

EASTMAN, ROBERT F., Instructor in Surveying and Concrete, Antioch College, Yellow Springs, Ohio 1924

EVANS, WILLIAM L., Professor of Chemistry, The Ohio State University, Columbus, Ohio 1924

FINCH, JAMES K., Associate Professor of Civil Engineering; Director, Summer School of Surveying, Columbia University, New York City 1924

JACKSON, DANIEL D., Executive Officer and Professor of Chemical Engineering, Columbia University, New York City 1924

LOCKE, CHARLES E., Associate Professor of Mining and Ore Dressing, Massachusetts Institute of Technology, Cambridge, Mass. 1924

MANN, CLAIR V., Professor of Engineering Drawing, University of Missouri, Rolla, Mo. 1924

MARTLAND, T. J., Instructor in Electrical Engineering, University of New Hampshire, Durham, N. H. 1924

NELSON, WENDELL M., Assistant Manager, Industrial Service Department, General Electric Company, Schenectady, N. Y. 1924

RUSS, JOHN M., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1924

THOMAS, CHARLES W., Assistant Professor of Mechanical Engineering, Columbia University, New York City 1924

TROWBRIDGE, DOUGLAS S., Professor of Civil Engineering, New York University, New York City 1924

WARNER, ROBERT K., Assistant Professor of Mining, Yale University, New Haven, Conn. 1924

YOUNG, S. K., Associate Director of Personnel Administration, Antioch College, Yellow Springs, Ohio 1924

LIST OF MEMBERS.

DE ZAFRA, CARLOS, Instructor in Engineering, New York University, (317 West 83d St.), New York City 1924

	18 *
	1670
Individual, ...	1688
Institutional, ...	105
Total Membership, ...	1793

* These members not included in totals in Geographical Summary of Membership and Summary of Occupations.

LIST OF MEMBERS.

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LIST OF MEMBERS.

GEOGRAPHICAL DISTRIBUTION OF MEMBERSHIP.

ALABAMA

Auburn.—Callan, John A. C., Ala. Poly. Inst.
Fullan, M. T., Ala. Poly. Inst.
Hill, W. W., Ala. Poly. Inst.
Hixon, C. R., Ala. Poly. Inst.
Moore, E. J., Ala. Poly. Inst.
Wilmore, J. J., Ala. Poly. Inst.
Tuscaloosa.—Davis, Geo. J. Jr., Pinehurst.

ARIZONA

Tucson.—Butler, G. M., Univ. of Ariz.
Cloke, Paul, Univ. of Ariz.
Leonard, Heman Burr, Univ. of Ariz.
Marvin, Cloyd H., Univ. of Ariz.
Nugent, P. C., 829 N. Tyndall Ave.

ARKANSAS

Fayetteville.—Baender, T. G., Univ. of Ark.
Gladson, W. N., Univ. of Ark.
Miller, W. J., Univ. of Ark.
Stelzner, W. B., Univ. of Ark.
Stocker, G. P., Univ. of Ark.
Taylor, Ward H., Univ. of Ark.
Wilson, L. A., Univ. of Ark.
North Little Rock.—Hedrick, I. G., Box 188.

CALIFORNIA

Berkeley.—Cory, C. L., Univ. of Calif.
Davis, R. E., Univ. of Calif.
Derleth, Chas. Jr., Univ. of Calif.
Foote, F. S., Univ. of Calif.
Gross, C. F., Univ. of Calif.
Haskell, M. W., Box No. 3.
Langille, H. R., Univ. of Calif.
Le Conte, J. N., Univ. of Calif.
McGrath, E. L., 1613 Grover St.
Probert, F. H., 28 Oakdale Ave.
Raber, B. F., Univ. of Calif.
Vanleer, B. R., Univ. of Calif.
Blythe.—Dearborn, C. S.
Claremont.—Hitchcock, G. G., 236 College Ave.
Davis.—Hoffman, A. H., Univ. Farm.
Fresno.—Jourdan, J. W., 1002 Coast Ave.
Los Angeles.—Hunt, G. H., Univ. of Calif.
Lawrence, C. W., 659 North Alexandria Ave.
Power, R. L., 1142 W. 37th St.
Sherwood, G. E. F., Univ. of Calif.
Showman, H. M., Univ. of Calif.
Palo Alto.—Clark, J. C., 151 Embarcadero Road.
Hillebrand, W. A., 354 Kellogg Ave.
Hoskins, L. M., 1240 Waverley St.
Morrill, J. B., Reed Reduction Co.
Moser, Charles, 651 Homer Ave.
Pasadena.—Clapp, W. H., Calif. Inst. of Tech.
Daugherty, R. L., Calif. Inst. of Tech.
Gilmore, L. H., Calif. Inst. of Tech.
Macarthur, J. R., Calif. Inst. of Tech.
Power, R. L., Univ. of So. Calif.
Sorensen, R. W., Calif. Inst. of Tech.
Thomas, Franklin, Calif. Inst. of Tech.
Van Buskirk, H. C., Calif. Inst. of Tech.
Riverside.—Bliss, H. H., Junior College.
San Francisco.—Corbett, L. J., 445 Sutter St.
Domonoske, A. B., Doble Steam Motors.
San Jose.—Corbin, C. E., College of the Pacific.
Santa Clara.—Sullivan, Geo. L., Univ. of Santa Clara.
Stanford University.—Durand, W. F., Stanford Univ.
Fish, J. C. L., Stanford Univ.
Henline, H. H., Stanford Univ.
Hoover, T. J., Stanford Univ.
Marx, C. D., Stanford Univ.
Moser, Chas., Stanford Univ.
Ryan, H. J., Stanford Univ.
Whittier.—Parsons, F. W., Whittier College.

CANADA

Alberta.—Boyle, R. W., Univ. of Alberta.
Ellis, Fred., 10425 92d St., Edmonton, South.
Morrison, I. F., Univ. of Alberta, Edmonton South.
Halifax.—Sexton, F H., Nova Scotia Tech. Coll.
Montreal—Campbell, Malcolm M., P. O. Box 385.
Johnson, Phelps, Dominion Bridge Co.
Lefebvre, Olivier O., 247 Mount Royal West.
Lafreniere, T. J., 59 Notre Dame, East.
McKergow, C. M., McGill Univ.
MacKay, H. M., McGill Univ.
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OKLAHOMA

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Jones, E. C.
Judd, Horace.
Kavanaugh, W. H.
Keller, G. J.
Kenerson, W. H.
Kent, B. C.
Kent, J. M.
Kerr, Jos.

OCCUPATIONAL DISTRIBUTION OF MEMBERSHIP.

Kiefer, P. J.
King, R. S.
Kingsbury, Albert.
Kinsey, A. S.
Klein, A. W.
Knapp, E. R.
Knowles, M. G.
Larkin, F. V.
Larson, G. L.
LeConte, J. N.
Lefavour, H. P.
Lanham, E. T.
Le Page, C. B.
Leutwiler, O. A.
Light, J. J.
Lindley, R. W.
Lockwood, E. H.
Lott, S. H.
Lucke, C. E.
Ludy, L. V.
Luebs, A. A.
Lund, Jacob
McKergow, C. M.
Macalpine, J. H.
Macconochie, A. F.
MacCullough, G. H.
Mack, Albert J.
MacNaughton, Edgar.
Mall, Ivor O.
Magruder, Wm. T.
Main, C. T.
Marks, L. S.
Marquis, F. W.
Martenis, J. Van S.
Martin, W. H.
Meeker, W. H.
Mehrhof, F. E.
Miller, James S.
Ming, Frederick
Moody, L. F.
Moore, E. J.
Morse, J. L.
Moss, S. A.
Mueses, M. C.
Muhfeld, J. E.
Munro, G. W.
Needy, John A.
Nelson, Thos.
Netschert, Wm.
Newton, Guy D.
Norton, A. E.
Nottingham, A. R.
Ohle, E. L.
Olson, O. A.
Palsgrove, Grant K.
Park, C. F.
Parkin, J. H.
Parkinson, H. N.
Peterson, J. A.
Philbrick, H. S.
Platt, J. H.
Porter, R. H.
Pound, J. H.
Prentice, D. B.
Prior, J. A.
Pryor, F. L.
Raber, B. F.
Richardson, G. R.
Robertson, B. J.
Robinson, Edw.
Roesch, Daniel.
Rowley, F. B.
Rubenkoenig, Harry
Rush, Harry S.
Sadler, H. C.
Sanders, W. H.
Sauers, John A.
Sayre, M. F.
Schmidt, E. C.
Setchell, H. E.
Seward, H. L.
Shipley, S. C.
Shoop, C. F.
Sluss, A. H.
Smith, M. V. G.
Smith, Ralph A.
Stanford, J. V.
Starr, Chas. J.
Stinson, K. W.
Stolworthy, E. H.
Strong, A. J
Stuart, M. C.
Sullivan, Geo. L.
Sweetser, W. J.
Tait, R. S.
Trinks, W.
Turnbull, W. F.
Tyler, H. G.
Vanleer, B. R.
Vaughan, L. L.
Veal, C. B.
Vedder, J. N.
Vose, F. H.
Waite, E. B.
Walker, E. S.
Weaver, L. H. A.
Weber, John.
Welland, W. F.
Wharen, G. B.
Wharton, James R.
Willard, A. C.
Willmarth, E. H.
Wilmore, J. J.
Wilson, Geo. S.
Wilson, L. A.
Wohlenberg, W. H.
Wood, A. J.
Young, E. G.
Young, G. A.
Zowski-Zwierzchowski, S.J.

MECHANICS AND MATERIALS

Basquin, O. H.
Boomsliter, G. P.
Boyd, J. E.
Britton, Laurence.
Brooke, W. E.
Brooks, J. Ansel.
Brown, F. L.
Bryans, W. R.
Chambers, S. D.
Chatburn, G. R.
Coddington, E. F.
Cornell, W. R.
Crook, L. H.
Cutshall, C. S.
Danforth, R. H.
Dawson, F. M.
Defoe, L. M.
Dietrich, J. J.
Draffin, J. O.
Duff, C. M.
Dukes, R. G.
Enger, M. L.
Ensign, N. E.
Fleming, V. R.
Fuller, C. E.
Garrett, S. S.
Genz, H. E.
George, S. G.
Hayward, H. W.
Hendrick, T. K.
Hitchcock, F. A.
Holman, W. F.
Holmes, F. E.
Houghton, C. E.
Hustedt, H. F.
Jasper, T. McI.
Johnston, W. A.
Kingman, E. D.
Kommers, J. B.
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Lawrance, C. H.
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Moore, H. F.
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Poorman, A. P.
Riggs, N. C.
Roark, Raymond J.
Sanders, W. B.
Scofield, H. H.
Seely, F. B.
Smay, J. E.
Stevens, F. H.
Talbot, Arthur N.
Thompson, G. S.
Trueblood, R. B.
Varney, E. A.
Withey, M. O.
Wood, E. H.
Wood, K. D.
Woodward, S. M.
Wunderlee, J. L.

MINING ENGINEERING

Black, R. M.
Boyle, A. C., Jr.
Cobb, Collier.
Comstock, E. H.
Denton, F. W.
Drucker, A. E.
Dyer, F. C.
Gottsberger, B. B.
Grider, R. L.
Haultain, H. E. T.
Hoover, Theodore J.
Jenkins, A.

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Probert, F. H.
Raymond, R. M.
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Smyth, H. L.
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Thomson, Francis A.
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Young, C. M.

PHYSICS

Ayres, F. H.
Bacon, G. P.
Ball, Albert.
Beck, W. A.
Blake, Fred C.
Brown, S. L.
Carlovitz, G. H.
Charles, R. L.
Clo, J. H.
Cole, Alfred D.
Cooper, F. L.
Coulson, J. C.
Dodge, H. L.
Drisko, W. J.
Duff, A. W.
Dysart, P. M.
Edwards, C. W.
Elliott, D. S.
Fisher, James.
Fitch, A. L.
Franklin, W. S.
Gilmore, L. H.
Gray, J. C.
Ham, Wm. R.
Hamilton, J. O.
Hatley, C. C.
Heck, C. M.
Hedrick, Wm. A.
Hitchcock, Geo. G.
Householder, F. F.
Hower, H. S.
Hoxton, L. G.
Kazda, C. B.
Knight, N. H.
Knipp, C. T.
Kovarik, Alois F.
Lester, O. C.
MacNutt, Barry.
Mallory, Francis.
Marvin, H. H.
Mendenhall, T. C.
Meyer, J. F.
Miller, Dayton C.
Norton, C. L.
Nyswander, R. E.
Perry, Wm. S.
Person, Fred G.
Piper, F. F.
Porter, R. A.
Press, A.
Randall, H. M.,
Rich, D. L.
Sanders, I. C.
Silvey, O. W.
Smith, A. W.
Spinney, L. B.
Stewart, G. W.
Stewart, O. M.
Stimpson, E. F.
Swain, Verne F.
Vezey, E. E.
Weil, Jos.
Wheeler, L. P.
Wheeler, N. E.
Woodrow, Jay W.

SANITARY ENGINEERING

Babbitt, Harold E.
Case, George W.
Eno, F. H.
Jewell, A. H.
Knowles, Morris.
Lafreniere, T. J.
Mead, D. W.
Saville, Thorndike.
Walker, Chas. L.
Waterman, E. L.
Whipple, G. C.
Wiley, Ralph B.

SHOP AND MECHANIC ARTS

Airey, J. A.
Bigelow, R. G.
Ellis, Frederick.
Hall, Burrill R.
Johnson, E. A.
Jones, F. E.
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Krewson, R. H.
Lynch, D. E.
Moffett, J. H.
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O'Brien, A. V.
Perkins, D. L.
Radebaugh, G. H.
Richards, Wm. H.
Rilliet, Chas. E.
Steele, J. N.
Turner, W. P.
Wendt, R. E.
Wheeler, F. B.

MISCELLANEOUS

Coster, E. L.
Ellis, H. M.
Eshleman, S. K., Jr.
Goldsmith, Adolph.
Hoexter, S. J.
Hughes, M. C.
Louria, M. R.
Miller, Roswell.
Price, P. W.
Smith, H. W.
Snavely, T. R.
Stovall, S. C., Jr.
Thurstone, L. L.
Turner, C. A. P.

SUMMARY BY OCCUPATIONS.

Administration Officers:	*A*—College and University	180
	B—Industrial	92
Architecture		19
Agricultural Engineering		6
Chemical Engineering		11
Chemistry		35
Civil Engineering		355
Drawing and Design		72
Electrical Engineering		242
Geology and Metallurgy		21
Industrial Engineering		22
Language		50
Mathematics		106
Mechanical Engineering		254
Mechanics and Materials		63
Mining Engineering		29
Physics		65
Sanitary Engineering		12
Shop and Mechanic Arts		20
Miscellaneous		14
		1670
Institutional Members		105
Total Membership		1775

GROWTH OF MEMBERSHIP.*

Aug.	20, 1894	156	
Sept.	2, 1895	184	
Aug.	20, 1896	200	(about)
Aug.	16, 1897	203	
Aug.	18, 1898	226	
Aug.	17, 1899	238	
July	2, 1900	249	
June	29, 1901	261	
June	27, 1902	253	
July	1, 1903	271	
Sept.	1, 1904	325	
June	28, 1905	379	
July	2, 1906	400	
July	1, 1907	415	
June	27, 1908	675	
June	24, 1909	759	
June,	23, 1910	848	
June	27, 1911	1,071	
June	1912	1,102	
June,	1913	1,158	
March,	1914	1,339	
July	1, 1915	1,452	
March,	1916	1,504	
March,	1917	1,505	
March,	1918	1,506	
April,	1920	1,511	
April,	1922	1,589	
March,	1923	1.694	
March,	1924	1,775	

* These figures are taken from the reports of the Secretary, presented at the annual meetings, except the figures for 1914 which were taken from the corresponding year book.

CONSTITUTION

OF THE

Society for the Promotion of Engineering Education

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1. NAME—This organization shall be called the SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.

2. MEMBERS—Membership in the Society shall be of two general classes, Institutional and Individual.

Institutional members shall be educational institutions giving instruction in engineering and scientific subjects.

Individual membership shall be of two classes, Active and Honorary. It shall comprise those persons who occupy or have occupied responsible positions in the work of engineering instruction, together with engineering practitioners and other persons interested in engineering education.

Honorary Members of the Society shall be such persons as may be recommended by unanimous vote of the Council after a letter ballot. In taking this ballot, the Secretary is directed to close the polls one month after the names of the candidates are sent out. Councilors not heard from will be counted in favor of the candidate. Honorary Members shall not have the right to vote, shall not be eligible to office, and shall not be required to pay any fees or dues.

Any individual member not in arrears for dues may become a Life Member by paying Fifty Dollars into the treasury of the Society at one time.

The name of each candidate for individual membership shall be proposed in writing to the Council by two members by whom he is personally known. In the case of a candidate for Institutional membership the name shall be proposed by any member familiar with the work of the institution on receipt of an application signed by a responsible officer thereof. Such name, if approved by the Council, shall be voted on by the Society at the annual meeting, a vote of three-fourths of those present being required to elect; or, during the period between annual meetings, an affirmative letter ballot of three-fourths of those members of the Council whose vote reaches the Secretary within one month from the time of sending out the name of the candidate shall elect. Such letter ballot elections shall be credited to the previous annual meeting and dues shall date from that time, except that elections to membership occurring after

February 1 shall be credited to the next annual meeting and the dues for the remainder of the year shall be one-half the annual dues.

3. OFFICERS—There shall be a President, two Vice-Presidents, a Secretary and a Treasurer, each to hold office for one year, or until their successors have been elected and have qualified. The Officers shall be elected by ballot of the Society at the annual meeting.

4. COUNCIL—The Council of the Society shall consist of twenty-one elective members, one-third of whom shall retire annually. The Officers and the Past Presidents of the Society shall be members of the Council ex-officio.

Any member of the Society shall be eligible to election to the Council, provided that not more than one elective member shall be from any one college.

Members of the Council shall be elected by ballot by the Society at its annual meeting.

The Council shall constitute a general executive body of the Society, pass on proposals for membership, elect candidates ad interim, attend to all business of the Society, receive and report on propositions for amendments to the constitution, and shall have power to fill temporary vacancies in the offices.

The President of the Society shall be Chairman of the Council, and the Secretary of the Society shall be Secretary of the Council and shall keep the minutes of its meetings and an accurate record of all its actions.

When votes taken by letter ballot of the Council shall be required, all votes which reach the Secretary within one month from the time of sending out the ballots shall be counted, but votes reaching the Secretary later than the time here specified shall not be counted.

5. NOMINATING COMMITTEE—The Nominating Committee shall consist of the Past Presidents and the seven elective members of the Council retiring the following year, provided, however, that if, of this committee, the number in attendance at any meeting be less than five, the President shall make appointments so as to form a committee of five.

6. FEES AND DUES—The admission fee for an individual, active member, which shall also include the first year's dues, shall be Four Dollars ($4.00), and the annual dues, which shall include the subscription price of the BULLETIN, provided for in Art. 8, shall be Four Dollars ($4.00), payable at the time of the annual meeting.

The admission fee for institutional members, which shall also include the first year's dues, shall be Ten Dollars ($10.00), and the annual dues, which shall include the subscription price of three copies of the BULLETIN, and of the PROCEEDINGS, provided for in Art. 8, shall be Ten Dollars ($10.00), payable at the time of the annual meeting.

The fiscal year shall end with the close (or adjournment) of the annual

meeting. Those in arrears more than one year shall not be entitled to vote, nor to receive copies of the PROCEEDINGS, and such members shall be notified thereof by the Secretary one month previous to the annual meeting. Any member who has been in arrears more than two years and duly notified by the Secretary, shall be dropped from the roll, until such arrearages are paid.

7. MEETINGS—There shall be an annual meeting at such time and place as the Society at the preceding annual meeting, or the Council may determine.

8. PUBLICATIONS—The publications of the Society shall include an annual volume of PROCEEDINGS, to be published and distributed to the membership as soon as possible after the annual meeting; and a monthly BULLETIN, to be published from September to June, inclusive.

9. AMENDMENTS—This Constitution may be amended by a two-thirds vote of those present at any regular meeting of the Society provided the amendment shall have been approved by the Council by letter ballot by a two-thirds vote of the members voting.

BY-LAWS OF THE SOCIETY AND RULES GOVERNING THE COUNCIL.

First. The Officers of the Society shall constitute a Committee to arrange for the annual meeting and to prepare a program for the same.

Second. The President, the Secretary and the Treasurer shall constitute an Executive Committee which shall have charge of all matters relating to the expenditure of money of the Society, the making of appropriations to Committees and for other purposes, the making of contracts, the approval of bills, and also during the period between the meetings of the Council shall have charge of other business affairs of the Society.

Third. Expenditures of money may be made only in accordance with a definite appropriation or by direct vote of the Executive Committee.

Fourth. Reading of papers shall be limited to fifteen minutes each or to such other time as may be designated by the Program Committee, and abstracts of papers of about three hundred words shall be printed when practicable, and distributed in advance to the members.

Fifth. The time occupied by each person in the discussion of any paper shall not exceed five minutes.

Sixth. The President, the Secretary and the retiring Secretary shall constitute a Publication Committee, of which the Secretary shall be Chairman, to edit and have charge of the publication of the monthly BULLETIN and the PROCEEDINGS of the Society, except the volume of

Proceedings of the last convention, which shall be edited by the retiring Secretary. If at any time there be no retiring Secretary the retiring President shall be a member of this Committee.

Seventh. The Officers, members of the Council and members of the local Convention Committee shall constitute a Committee on Sociability to introduce members and guests to each other at the annual meetings and in general to promote a spirit of good fellowship.

Eighth. The subscription price of the BULLETIN shall be Three Dollars per year, payable in advance.

Ninth. Additions or amendments may be made to these By-Laws at any regular meeting of the Society, on the recommendation of the Council by a two-thirds affirmative vote of the Council and of the Society.

Tenth. A Section of the Society may be formed by members in two or more institutions or by the members within a prescribed territory. A Section may be formed in any locality by a temporary organization which shall become a duly authorized section of the Society upon the approval of the Council. Sections may determine their own form of organization but shall operate in conformity with the Constitution and By-Laws of the Society and shall make a report of their proceedings to the Secretary of the Society. Sections shall be self-sustaining.

Papers and discussion presented before Sections shall be the property of the Society and may be published as Society proceedings only on authority of the Publication Committee.

Eleventh. A Branch may be formed by the members of a single institution. A Branch may be formed in any institution by a temporary organization which shall become a duly authorized Branch of the Society upon approval by the Executive Committee. Branches may determine their own form of organization but shall operate in conformity with the Constitution and By-Laws of the Society and shall make a report of their proceedings to the Secretary of the Society. Branches shall be self-sustaining.

Papers and discussions presented before the Branches shall be the property of the Society and may be published as Society proceedings only on authority of the Publication Committee.

Branch may coöperate with or be a part of other organizations having the same general purpose as this Society. The general purpose of Branches is to extend the interest in, and the discussion of, questions relating to the teaching of engineering students, and to bring to the Society at large, through its publications, the activities in all institutions that will be serviceable to the members of the Society.

Twelfth. Divisions may be formed by any group of members for the consideration of questions which relate particularly to that group, upon the approval of the Council.

BY-LAWS.

PUBLICATIONS.

The publications of the Society can be obtained from the Secretary. The current issues are distributed gratuitously to members in good standing, one copy of each to each individual member and three to each institutional member. The price of the bound volumes of the PROCEEDINGS of former years is $2.50 to non-members, $2.00 to public libraries, and $1.50 to members for their own libraries.

The BULLETIN is issued monthly from September to June. The price to non-members is $3.00 per year. Libraries may order the BULLETIN and the PROCEEDINGS at $6.00 per year.

Reprints of papers may be ordered when the papers are in type form, and either with or without covers, at a price depending upon the number of pages and copies desired.

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J. P. Brooks,
D. C. Jackson,
Edgar Marburg,*
J. C. Nagle.
N. C. Ricker,
A. L. Williston,

Terms of Office Expired in 1904.

W. F. M. Goss,
O. H. Landreth,
Thomas Gray,*
W. G. Raymond,
L. S. Randolph.
D. C. Humphreys,
L. E. Reber,

Terms of Office Expired in 1905.

Wm. Esty,
H. S. Jacoby,
L. J. Johnson,
Elwood Mead,
Edward Orton, Jr.
W. M. Towle,
J. L. Van Ornum,

Terms of Office Expired in 1906.

John Galbraith,*
Frederick P. Spalding,*
Charles S. Howe,
Henry W. Spangler,*
Herman K. Vedder.
Walter M. Riggs,
Fred. E. Turneaure,

* Deceased.

MEMBERS OF PREVIOUS COUNCILS.

Terms of Office Expired in 1907.

THOMAS GRAY,*	JAMES C. NAGLE,	WILLIAM G. RAYMOND,
LOUIS E. REBER,	ARTHUR N. TALBOT,	CLARENCE A. WALDO,
	ROBERT S. WOODWARD.	

Terms of Office Expired in 1908.

VICTOR C. ALDERSON,	ARTHUR H. FORD,	H. P. TALBOT,
FRANCIS C. CALDWELL,	HENRY S. MUNROE,	A. L. WILLISTON,
	FREDERICK W. SPERR.	

Terms of Office Expired in 1909.

CHARLES F. BURGESS,	JOHN F. HAYFORD,	THOMAS W. PALMER,
ARTHUR M. GREENE, JR.,	MILO S. KETCHUM,	JOSEPH A. THALER,
	HENRY H. NORRIS.	

Terms of Office Expired in 1910.

FRED W. ATKINSON,	WALTER B. RUSSELL,	WILLIAM S. FRANKLIN,
MORTIMER E. COOLEY,	WILLIAM KENT,	CHARLES F. SCOTT,
	HAROLD B. SMITH.	

Terms of Office Expired in 1911.

LESTER P. BRECKENRIDGE,	LEWIS J. JOHNSON,	WILLIAM G. RAYMOND,
THOMAS GRAY,*	WILLIAM T. MAGRUDER,	HERMAN SCHNEIDER,
	CLARENCE A. WALDO.	

Terms of Office Expired in 1912.

FREDERICK A. GOETZE,*	H. WADE HIBBARD,	EDW. R. MAURER,
FRANK H. CONSTANT,	JOHN H. LEETE,	JOHN C. OSTRUP,
	CHAS. RUSS RICHARDS.	

Terms of Office Expired in 1913.

C. H. BENJAMIN,	E. E. BRYDONE-JACK,	J. F. HAYFORD,
G. W. BISSELL,	W. H. P. CREIGHTON,	C. RUSS RICHARDS,
	H. W. TYLER.	

Terms of Office Expired in 1914.

J. E. BOYD,	F. L. EMORY,	J. A. L. WADDELL,
C. H. CROUCH,	C. E. MAGNUSSON,	A. J. WOOD,
	H. H. STOEK,*	

Terms of Office Expired in 1915.

F. L. BISHOP,	O. P. HOOD,	W. B. SNOW,
G. R. CHATBURN,	G. D. SHEPARDSON,	J. C. TRACY,
	F. P. MCKIBBEN.	

Terms of Office Expired in 1916.

J. F. HAYFORD,	A. S. LANGSDORF,	P. F. WALKER,
M. S. KETCHUM,	F. P. SPALDING,	S. M. WOODWARD,
	H. W. TYLER.	

* Deceased.

MEMBERS OF PREVIOUS COUNCILS.

Terms of Office Expired in 1917.

R. H. Fernald,
A. H. Fuller,
A. M. Greene, Jr.,
E. V. Huntington,
V. Karapetoff,
D. C. Miller,
W. M. Riggs.

Terms of Office Expired in 1918.

L. P. Breckenridge,
C. L. Cory,
C. H. Crouch,
O. P. Hood,
J. B. Whitehead.
F. P. McKibben,
G. D. Shepardson,

Terms of Office Expired in 1919.

A. H. Blanchard,
W. H. Browne, Jr.,
T. E. French,
R. W. Gay,
A. A. Potter.
F. G. Higbee,
E. J. McCaustland,

Terms of Office Expired in 1920.

T. U. Taylor,
K. G. Matheson,
C. J. Tilden,
C. F. Scott,
L. M. Hoskins.
Frank Aydelotte,
W. E. Mott,

Terms of Office Expired in 1921.

Frederic Bass,
C. Francis Harding,
O. A. Leutwiler,
C. R. Mann,
W. J. Risley.
J. Raleigh Nelson,
F. L. Pryor,

Terms of Office Expired in 1922.

H. S. Boardman,
F. C. Bolton,
E. F. Coddington,
W. H. Kavanaugh,
W. S. Rodman.
C. C. More,
E. H. Rockwell,

Terms of Office Expired in 1923.

J. F. Merrill,
W. H. Timbie,
R. S. King,
J. H. Felgar,
J. C. Tracy,
L. L. Thurstone,
C. C. Williams.

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* Deceased.